Aspire 5920G Series
Service Guide

Service guide files and updates are available on the ACER/CSD web; for more information, please refer to http://csd.acer.com.tw

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Revision History

Please refer to the table below for the updates made on Aspire Chapla service guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

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Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Specifications

Features

Below is a brief summary of the computer's many features:

Operating system

- Genuine Windows® Vista™ Capable
- Genuine Windows® Vista™ Home Basic / Home Premium / Ultimate / Business Edition
- Genuine Windows® XP Home / Professional Edition (Service Pack 2)
- Genuine Windows® XP Media Center / Tablet Edition
- Genuine Windows® 2000 (Service Pack 4)

NOTE: Windows® Vista™ Capable PCs come with Windows® XP installed, and can be upgraded to Windows® Vista™. For more information on Windows® Vista™ and how to upgrade, go to: Microsoft.com/windowsvista.

Platform and memory

- Intel® Mobile Merom mobile technology, featuring:
  - Intel® Core™ Duo processor (4 MB L2 cache, 1.66/1.83/2/2.16 GHz, 800 MHz FSB) or higher
  - Intel® PM965 Chipset
- Integrated Intel® PRO/Wireless 3945ABGN network connection (dual-band tri-mode 802.11a/b/g/n) Wi-Fi CERTIFIED™ solution, supporting Acer SignalUp™ wireless technology
- Core logic: Intel® Santa Rose Platform, Crestline 965GM+ICH8M (north bridge+ south bridge)
- Up to 2GB of DDR2 533/677 MHz memory, upgradeable to 4GB using two soDIMM modules (dual-channel support)

Display and graphics

- 15.4" WXGA+ high-brightness Acer CrystalBrite™ TFT LCD, 1680 x 1050 pixel resolution, 6 lamps
- 16 ms typical of/off and 8 ms average gray-to-gray response time
- Simultaneous multi-window viewing via Acer Vista™ supported
- Supporting NVIDIA® PureVideo™ technology (WMV HD, High-Definition MPEG-2 Hardware Acceleration, integrated HDTV encoder) dual-link DVI, Microsoft® DirectX® 10, Shader Model 4.0, OpenEXR High Dynamic Range (HDR) technology, Unified Shader Architecture, Geometry Instancing 2.0, SGI OpenGL® 2.0 Optimizations and support, SmartDimmer™ Technology and PCI Express®
- Dual independent display
- 16.7 million colors (20.1" LCD model)
- 16.2 million colors (19" LCD model)
- MPEG-2/DVD hardware-assisted capability
- S-video/TV-out (NTSC/PAL) support
- Acer Arcade™ featuring Acer CinemaVision™ and Acer ClearVision technologies

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Audio

- Intel® High Definition audio support
- Two built-in Acer 3DSonic stereo speakers (1W)
- Realtek ALC268 Audio Code with Dolby®
- Sound Blaster Pro™ and MS Sound compatible
- Built-in microphone
- VoIP-enabled

Storage subsystem

- One or two 60/80/100/120 GB Serial ATA hard disk drive, supporting Ultra DMA100 S.M.A.R.T / Hybrid HDD
- Optical drive options: DVD-Super Multi double-layer drive, Blue-ray drive (slot-load)
- 5-in-1 card reader, supporting Secure Digital (SD), MultiMediaCard (MMC), Memory Stick® (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD)
- Supports 3G SIM Card

Input devices

- 88/89-key keyboard with 101/102 key emulation
- Touchpad with 4-way scroll button
- Six Media keys
- Four easy-launch buttons

Communication

- Acer Video Conference, featuring Voice and Video over Internet Protocol (VVoIP) support via Acer OrbiCam™ and optional Acer Bluetooth® VoIP phone
- Acer OrbiCam™ 0.3 megapixel CMOS camera, featuring:
  - 30 degree ergonomic rotation
  - Acer VisageOn™ technology
  - Acer PrimaLite™ technology
- Modem: 56K V.90/V.92 WWDAA modem; wake-on-ring ready support by S3
- LAN: gigabit Ethernet; wake-on-LAN ready
- WPAN: Bluetooth® 2.0+EDR (Enhanced Data Rate)
- Integrated Kedron-n 3945abg network connection (dual-band tri-mode 802.11a/b/g/n) Wi-Fi CERTIFIED™ solution, supporting Acer SignalUp™ wireless technology

Mini Cards

- Two mini card slots (one supports a wireless module, the other a TV, 3G, or MPEG decoder module)
- 3G SIM card support

I/O Ports

- PC Card slot (one Type II)
- 5-in-1 card reader (SD/MMC/MS/MS PRO/xD)
- Four USB 2.0 ports
- Two mini card slots
- HDMI port
- IEEE 1394 port

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- Fast infrared (FIR) port
- External display (VGA) port
- S-video/TV-out (NTSC/PAL) port
- Headphones/speaker/line-out port with S/PDIF support
- Microphone-in jack
- Line-in jack
- Ethernet (RJ-45) port
- Modem (RJ-11) port
- DC-in jack for AC adaptor
- 3G SIM Card slot (optional)
- TV-in port (optional)
- RF-in port (optional)

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Environment

- Temperature:
  - Operating: 5ºC to 35ºC
  - Non-operating: -20ºC to 65ºC
- Humidity (non-condensing):
  - Operating: 20%~80%
  - Non-operating: 20%~80%

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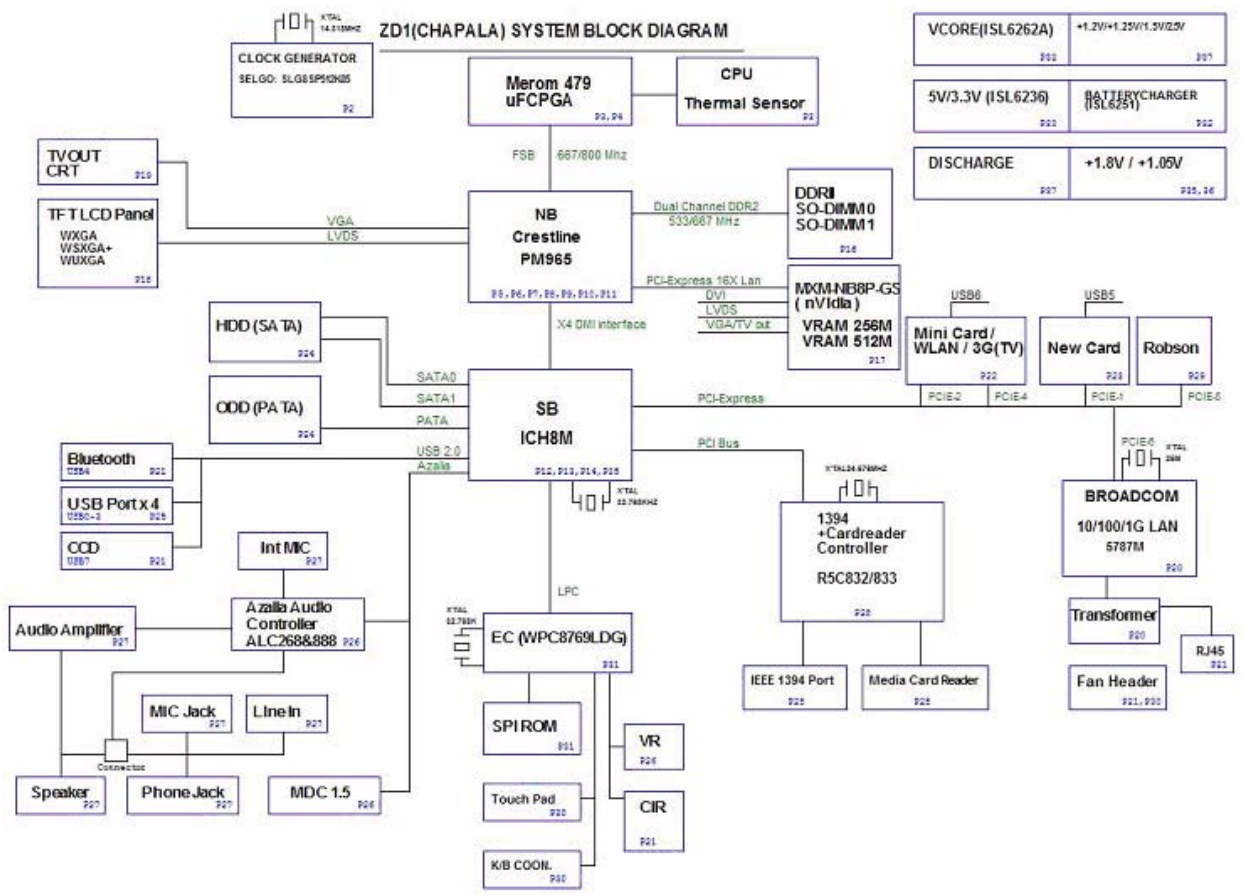
System Block Diagram



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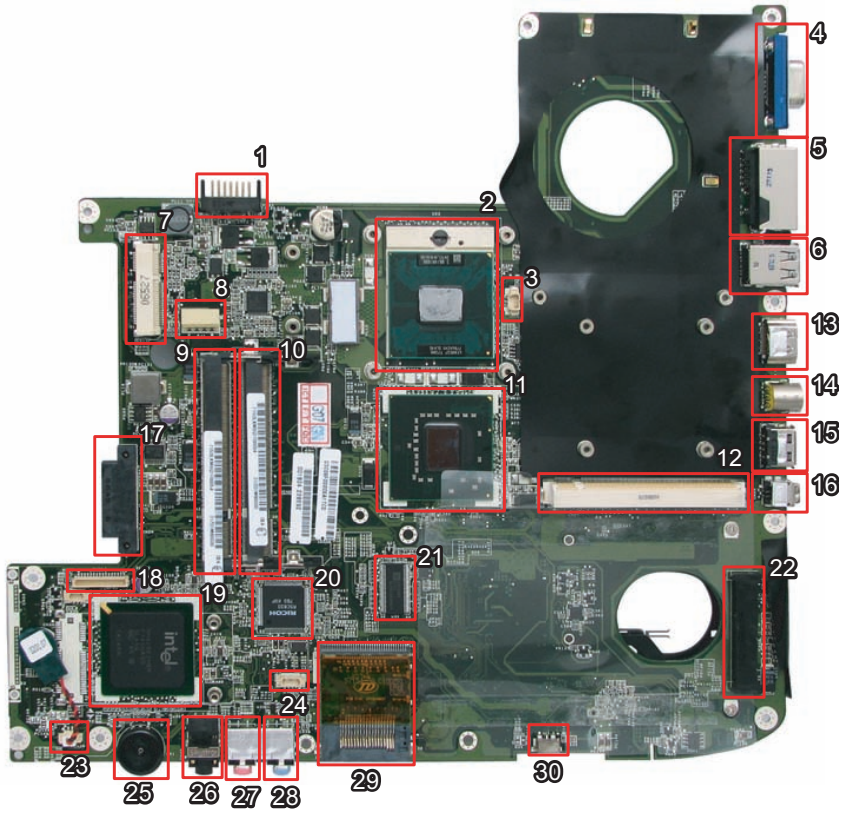
Board Layout

Top View



1	CN15	Battery Connector	16	CN26	IEEE 1394 Connector
2	U22	CPU Socket	17	CN28	Optical Disk Drive Connector
3	CN20	Fan Connector	18	CN30	
4	CN13	VGA Jack	19	U34	South Bridge
5	CN14	Ethernet Controller	20	U32	Audio Codec
6	CN18	USB Connector	21	U31	
7	CN19	Wireless LAN Card Connector	22	CN32	SATA HDD Connector
8	PJ1	DC-IN Connector	23	CN39	
9	CN25	DIMM Socket	24	CN35	Speaker Connector
10	CN23	DIMM Socket	25	VR1	Volume Dial
11	U29	North Bridge	26	CN30	Headphones/Speaker/Line-out Jack
12	U30		27	CN37	Microphone-in Jack
13	CN21	HDMI Connector	28	CN36	Line-in Jack
14	CN22	S-Video Connector	29	CN38	5-in-1 Card Reader
15	CN23	USB Connector	30	U37	Infrared Sensor

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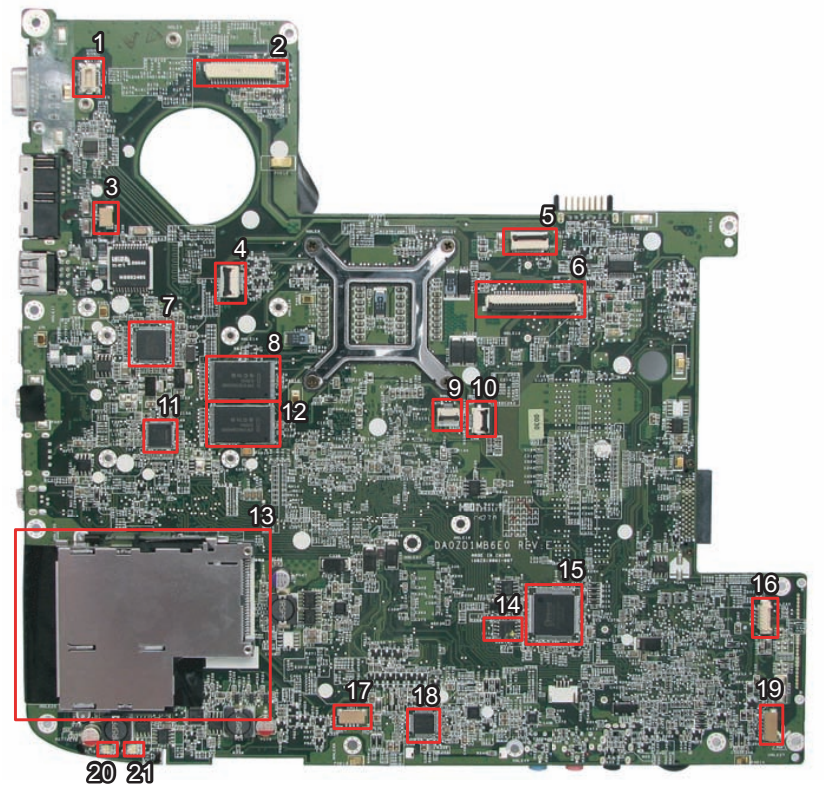
Bottom View



1	CN2		12	U7	DDR2 SDRAM IC
2	CN1	LCD Connector	13	CN9	Card Bus Socket
3	CN3	MDC Connector	14	U11	
4	CN5	Email Board Connector	15	U10 Winbond	Touchpad Connector
5	CN4	Power Board Connector	16	CN16	Subwoofer Connector
6	CN6	Keyboard Connector	17	CN11	MSC Connector
7	U4	Audio Codec	18	U19	
8	U6	DDR2 SDRAM IC	19	CN12	
9	CN7	Bluetooth Connector	20	LED2	HDD LED
10	CN8	Wireless Connector	21	LED3	Battery LED
11	U8				

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Your Acer Notebook tour

After knowing your computer features, let us show you around your new Aspire computer.

Front View

#	Icon	Item	Description
1		Built-in camera	0.3 megapixel web camera for video communication.
2		Microphone	Internal microphone for sound recording.
3	⏻	Power button	Turns the computer on and off.
4		Speaker	Left and right speakers deliver stereo audio output.

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5		Wireless communication button/indicator	Enables/disables the wireless function. Indicates the status of wireless LAN communication.
6		WWW/E-mail buttons	Button to launch your internet browser and e-mail reader.
7		Bluetooth® communication button/ indicator	Enables/disables the Bluetooth® function. Indicates the status of Bluetooth communication.
8		Keyboard	For entering data into your computer.
9		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
10		4-way scroll button	To scroll up, down, left, and right.
11		Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.
12		Click buttons (left and right)	The left and right buttons function like the left and right mouse buttons.
13		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
14		Empowering button	Launches the Empowering Technology toolbar.
15		Media buttons	To play, pause, record, rewind, fast forward or stop playback / recording.
16		Palmrest	Comfortable support area for your hands when you use the computer.

Closed Front View

#	Icon	Item	Description
1		Power indicator	Indicates the computer's power status.
2		Battery indicator	Indicates the computer's battery status.
3		Infrared port	Interfaces with infrared devices (e.g, infrared printer and IR-aware computer).
4		5-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick PRO (MS PRO), xD-Picture Card (xD).

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5		Line-in jack	Accepts audio line-in devices (e.g., audio CD player, stereo walkman).
6		Microphone-in jack	Accepts input from external microphones.
7	SPDIF	Headphones/speaker/ line-out jack with S/PDIF support	Connects to audio line-out devices (e.g., speakers, headphones).
8		Volume control	Increases and decreases the volume.

Left View

#	Icon	Item	Description
1		External display (VGA) port	Connects to a display device (e.g., external monitor, LCD projector).
2		Ethernet (RJ-45)	Connects to an Ethernet 10/100/1000-based network (for selected models).
3		Modem (RJ-11) port	Connects to a phone line.
4		2 USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
5		HDMI port	Connects to a television or display device with HDMI input.
6	S	S-video/TV-out (NTSC/ PAL) port	Connects to a television or display device with S-video input.
7		USB 2.0 port	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
8	1394	4-pin IEEE 1394 port	Connects to IEEE 1394 devices.
9		PC Card slot	Accepts one Type II PC Card.

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Right View

#	Icon	Item	Description
1		Optical drive	Internal optical drive; accepts CDs or DVDs (slot-load or tray-load depending on model).
2		Optical disk access indicator	Lights up when the optical drive is active.
3		Optical drive eject button	Ejects the optical disk from the drive.
4		Emergency eject hole	Ejects the optical drive tray when the computer is turned off.
5		USB 2.0 port	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
6		Kensington lock slot	Connects to a Kensington-compatible computer security lock.

Rear view

#	Icon	Item	Description
1		DC-in jack	Connects to an AC adapter.

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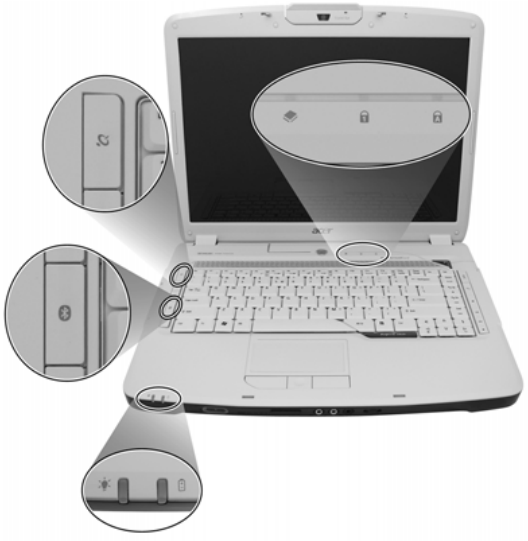
Base view

#	Item	Description
1	Battery bay	Houses the computer's battery pack.
2	Battery lock	Locks the battery in position.
3	Battery release latch	Releases the battery for removal.
4	Ventilation slots and cooling fan	Enable the computer to stay cool, even after prolonged use. Note: Do not cover or obstruct the opening of the fan.
5	System fan	Enables the motheboard to stay cool, even after prolonged use. Note: Do not cover or obstruct the opening of the fan.
6	Memory compartment	Houses the computer's main memory.
7	Hard disk bay	Houses the computer's hard disk (secured with screws)

Indicators

The computer has several easy-to-read status indicators.



The front panel indicators are visible even when the computer cover is closed up.

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Icon	Function	Description
	HDD	Indicates when the hard disc or optical drive is active.
	Num lock	Lights when Num Lock is activated.
	Cap lock	Lights when Cap Lock is activated
	Power	Lights up when the computer is on.
	Battery	Lights up when the battery is being charged.
	Bluetooth	Indicates the status of Bluetooth communication.
	Wireless LAN	Indicates the status of wireless LAN communication.

NOTE: 1. **Charging:** The light shows amber when the battery is charging. 2. **Fully charged:** The light shows green when in AC mode.

Easy-Launch Buttons

To the right of the keyboard there are three easy-launch buttons: Web browser, mail, and one user-programmable button. You can also find an Empowering Key " e located above the keyboard.

Press " e " to run the Acer Empowering Technology. The mail and Web browser buttons are pre-set to email and Internet programs, but can be reset by users. To set the Web browser, mail and programmable buttons, run the Acer Launch Manager.

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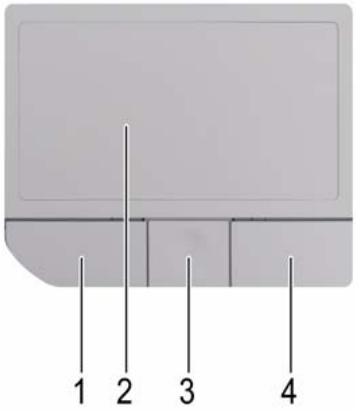
Launch key	Default application
e	Acer Empowering Technology (user-programmable)
Web browser	Internet browser (user-programmable)
Mail	Email application (user-programmable)
P	User-programmable

Touchpad Basics

The following teaches you how to use the touchpad:



- Move your finger across the touchpad (2) to move the cursor.
- Press the left (1) and right (4) buttons located beneath the touchpad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad is the same as clicking the left button.
- Use the fingerprinter (3) to enroll the computer with registered fingerprint. This recognition device helps prevent unauthorized access by others.

Function	Left Button (1)	Right Button (4)	Main touchpad (2)	Fingerprinter (3)
Execute	Click twice quickly		Tap twice (at the same speed as double-clicking the mouse button)	
Select	Click once		Tap once	
Drag	Click and hold, then use finger on the touchpad to drag the cursor.		Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the touchpad on the second tap and drag the cursor.	
Access context menu		Click once		
Log in with authorized fingerprint				Swipe your finger over the fingerprinter.

NOTE: When using the touchpad, keep it - and your fingers - dry and clean. The touchpad is sensitive to finger movements; hence, the lighter the touch, the better the response. Tapping too hard will not increase the touchpad's responsiveness.

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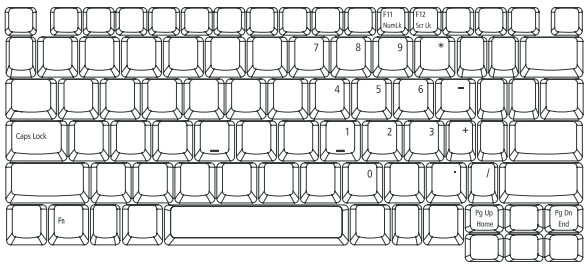
Using the Keyboard

The keyboard has full-sized keys and an embedded keypad, separate cursor keys, one Windows key and twelve function keys.

Lock Keys and embedded numeric keypad

The keyboard has three lock keys which you can toggle on and off.



Lock Key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num lock <Fn>+<F11>	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll lock <Fn>+<F12>	When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Desired Access	Num Lock On	Num Lock Off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold <Shift> while using cursor-control keys.	Hold <Fn> while using cursor-control keys.
Main keyboard keys	Hold <Fn> while typing letters on embedded keypad.	Type the letters in a normal manner.

Windows Keys

The keyboard has one key that performs Windows-specific functions.

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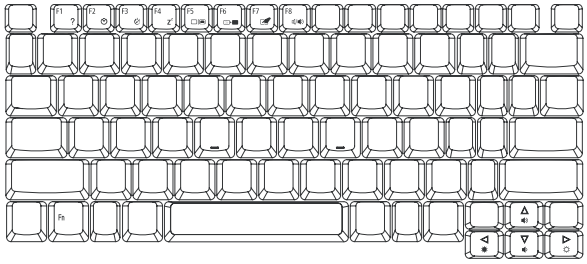
Key	Icon	Description
Windows key		Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of function: + <Tab> Activates next taskbar button. + <E> Opens the My Computer window + <F1> Opens Help and Support. + <F> Opens the Search: All Files dialog box. + <R> Opens the Run dialog box. + <M> Minimizes all windows. <Shift>+ + <M> Undoes the minimize all windows action.
Application key		This key has the same effect as clicking the right mouse button; it opens the application's context menu.

Hot Keys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness, volume output, and the BIOS utility.

To activate hot keys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.



Hot Key	Icon	Function	Description
<Fn>+<F1>	?	Hot key help	Displays help on hot keys.
<Fn>+<F2>		Acer eSettings	Launches the Acer eSettings in Acer eManager.
<Fn>+<F3>		Acer ePower Management	Launches the Acer ePower Management in Acer Empowering Technology. **See "Acer Empowering Technology" on page 18**.
<Fn>+<F4>	Z z	Sleep	Puts the computer in Sleep mode.

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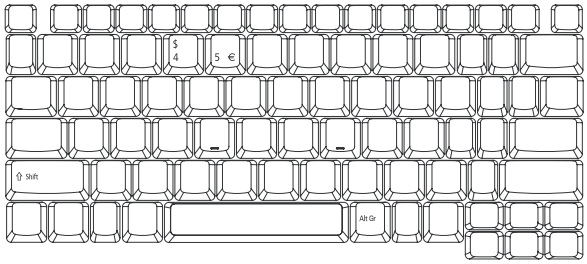
Hot Key	Icon	Function	Description
<Fn>+<F5>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<Fn>+<F6>		Screen blank	Turns the display screen backlight off to save power. Press any key to return.
<Fn>+<F7>		Touchpad toggle	Turns the internal touchpad on and off.
<Fn>+<F8>		Speaker toggle	Turns the speakers on and off.
<Fn>+<↑>		Volume up	Increases the speaker volume.
<Fn>+<↓>		Volume down	Decreases the speaker volume.
<Fn>+<→>		Brightness up	Increases the screen brightness.
<Fn>+<←>		Brightness down	Decreases the screen brightness

Special Key

You can locate the Euro symbol and US dollar sign at the upper-center of your keyboard.

To type:



The Euro symbol

1. Open a text editor or word processor.
2. Hold **<Alt Gr>** and then press the **<5>** symbol at the upper-center of the keyboard.

NOTE: Some fonts and software do not support the Euro symbol. Please refer to www.microsoft.com/typography/faq/faq12.htm for more information.

The US dollar sign

1. Open a text editor or word processor.
2. Hold **<Shift>** and then press the **<4>** key at the upper-center of the keyboard.

NOTE: This function varies by the operating system version.

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Acer Empowering Technology

Acer's innovative Empowering Technology makes it easy for you to access frequently used functions and manage your new Acer notebook. It features the following handy utilities:

- **Acer eNet Management** hooks up to location-based networks intelligently.
- **Acer ePower Management** extends battery power via versatile usage profiles.
- **Acer ePresentation Management** connects to a projector and adjusts display settings conveniently.
- **Acer eDataSecurity Management** protects data with passwords and advanced encryption algorithms.
- **Acer eLock Management** limits access to external storage media.
- **Acer eRecovery Management** backs up and recovers data flexibly, reliably and completely.
- **Acer eSettings Management** accesses system information and adjusts settings easily.
- **Acer ePerformance Management** improves system performance by optimizing disk space, memory and registry settings.

For more information, press the < e > key to launch the Empowering Technology toolbar, then click on the appropriate utility and select the Help or Tutorial function.

Empowering Technology password

Before using Acer eLock Management and Acer eRecovery Management, you must initialize the Empowering Technology password. Right-click on the Empowering Technology toolbar and select "Password Setup" to do so. If you do not initialize the Empowering Technology password, you will be prompted to do so when running Acer eLock Management or Acer eRecovery Management for the first time.

Acer eNet Management

Acer eNet Management helps you to quickly and easily connect to both wired and wireless networks in a variety of locations. To access this utility, either click on the "**Acer eNet Management**" icon on your notebook, or start the program from the Start menu. You also have the option to set Acer eNet Management to start automatically when you boot up your PC.

Acer eNet Management automatically detects the best settings for a new location, while offering you the freedom to manually adjust the settings to match your needs.

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Acer eNet Management can save network settings for a location to a profile, and automatically switch to the appropriate profile when you move from one location to another. Settings stored include network connection settings (IP and DNS settings, wireless AP details, etc.), as well as default printer settings.

Security and safety concerns mean that Acer eNet Management does not store username and password information.

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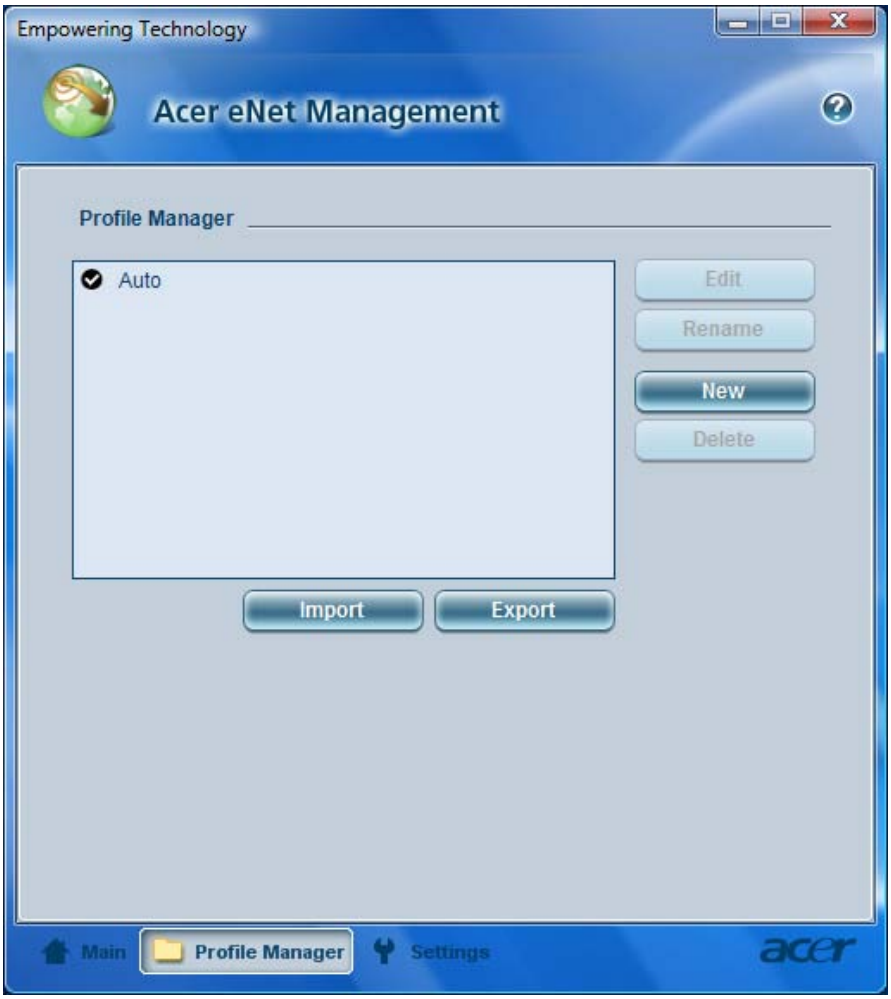

Acer ePower Management

Acer ePower Management features a straightforward user interface. To launch it, select Acer ePower Management from the Empowering Technology interface.

AC Mode (Adapter mode)

The default setting is “Maximum Performance.” You can adjust CPU speed, LCD brightness and other settings, or click on buttons to turn the following functions on/off: Wireless LAN, Bluetooth, CardBus, FireWire (1394), Wired LAN and Optical Device if supported.

DC Mode (Battery mode)

There are three pre-defined profiles - Balanced, Power Saver, and High Performance. You can also define the power plan optimized for your needs.

To create new power plan

1. Select a predefined power plan and click the “ “ icon shown on the lower left-hand side.
2. Enter the name for the newly created power plan.
3. Select one of the predefined power plan that is closest to what you want.
4. Change the display and sleep settings as desired.
5. Click “OK“ to apply the setting.
6. A new power plan is created.

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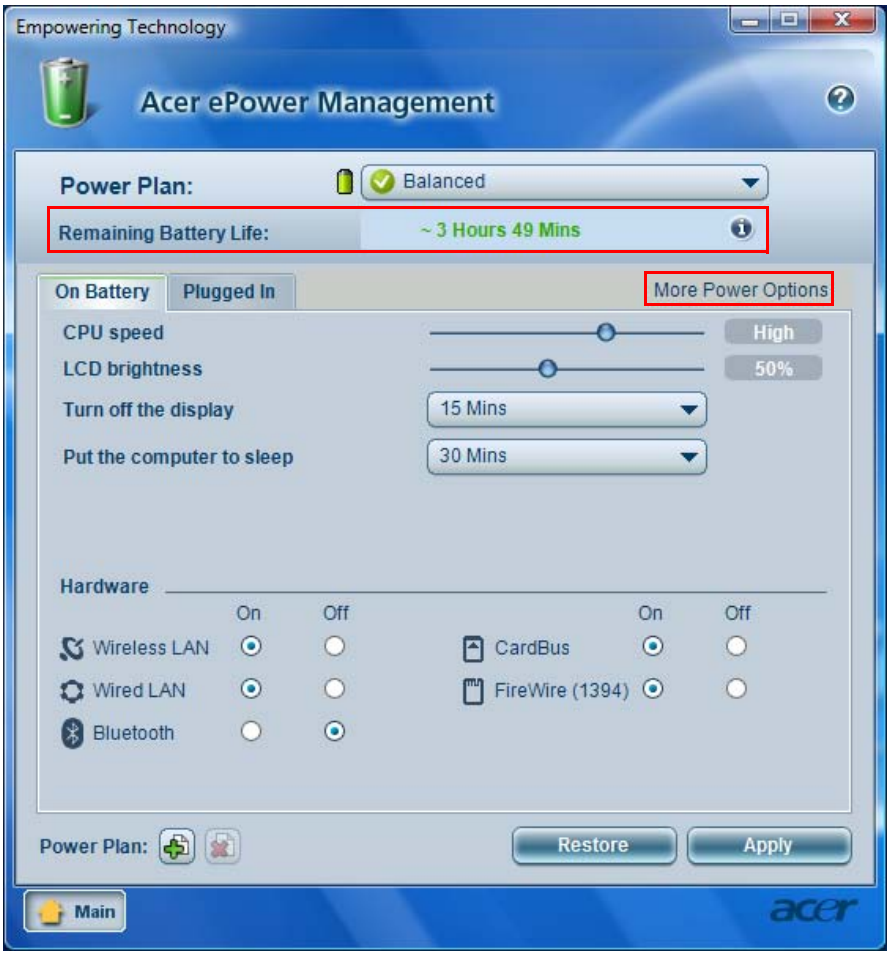
Battery status

For real-time battery life estimates based on current usage, refer to the time shown in the “Remaining Battery Life” field.



For additional power options, click “**More Power option**”.

Acer ePresentation Management

Acer ePresentation Management lets you project your computer’s display to an external device or project using the hot key: Fn + F5. If auto-detection hardware is implemented in the system, your system display will be automatically switched out when an external display is connected to the system.

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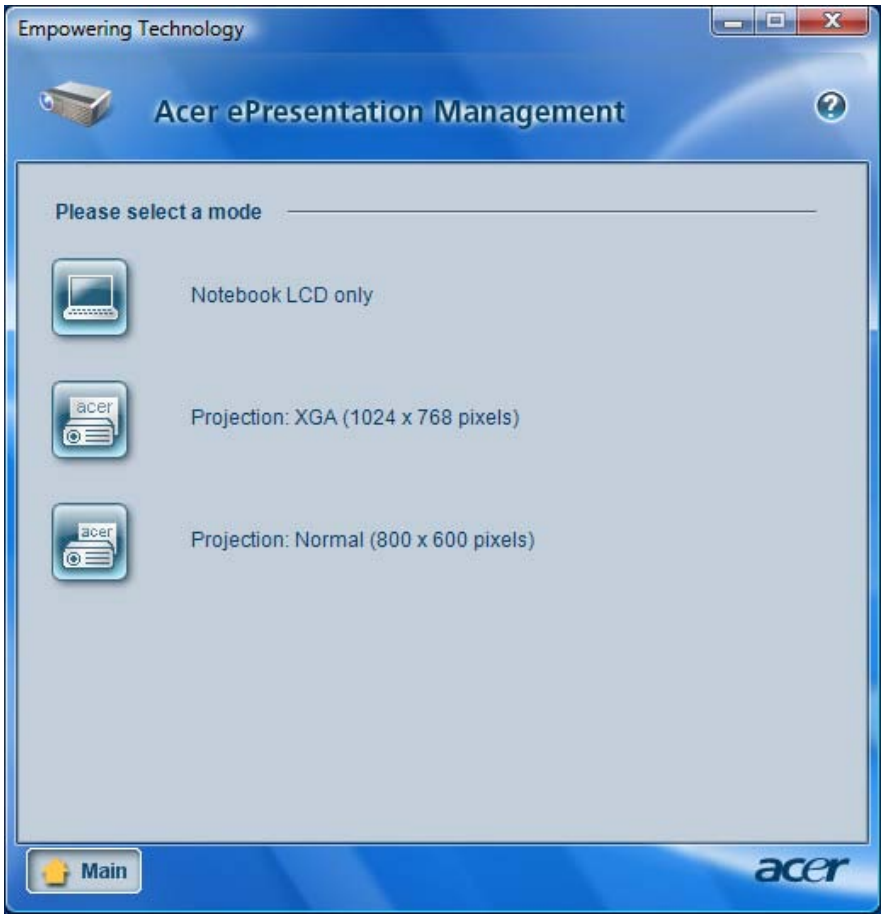

Acer eDataSecurity Management

Acer eDataSecurity Management is handy file encryption utility that protects your files from being accessed by unauthorized persons. It is conveniently integrated with Windows explorer as a shell extension for quick and easy data encryption/decryption and also supports on-the-fly file encryption for MSN Messenger and Microsoft Outlook.

The Acer eDataSecurity Management setup wizard will prompt you for a supervisor password and default encryption. This encryption will be used to encrypt files by default, or you can choose to enter your won file-specific password when encrypting a file.

NOTE: The password used encrypt a file is the unique key that the system needs to decrypt it. If you lose the password, the supervisor password is the only other key capable of decrypting the file. If you lose both passwords, there will be no way to decrypt your encrypted file! **Be sure to safeguard all related passwords!**

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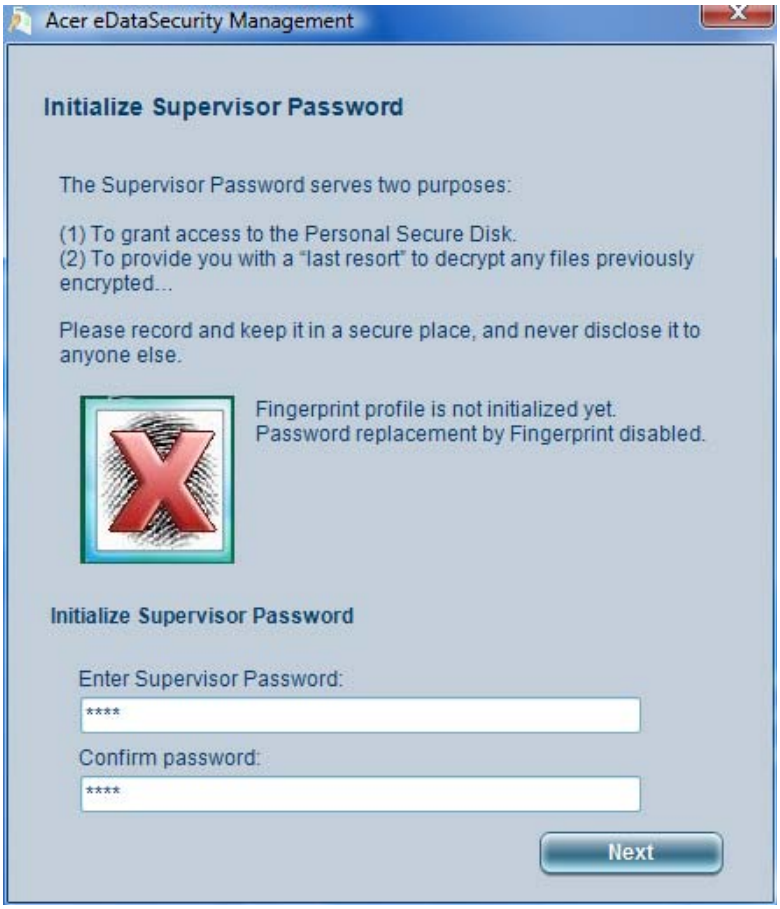
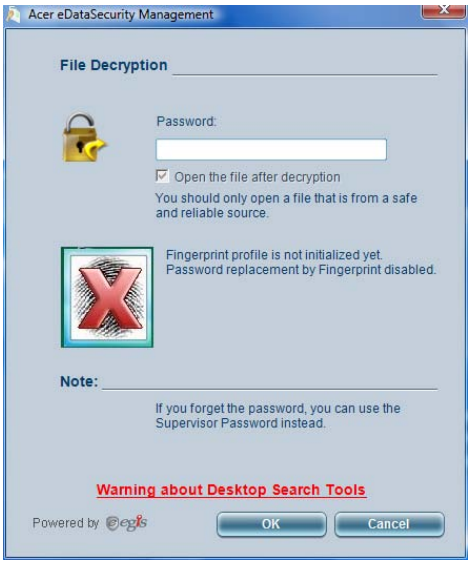

Acer eDataSecurity Management
Initialize Supervisor Password
The Supervisor Password serves two purposes:
(1) To grant access to the Personal Secure Disk.
(2) To provide you with a "last resort" to decrypt any files previously encrypted...
Please record and keep it in a secure place, and never disclose it to anyone else.
Fingerprint profile is not initialized yet.
Password replacement by Fingerprint disabled.
Initialize Supervisor Password
Enter Supervisor Password:
****
Confirm password:
****
Next


Acer eDataSecurity Management
File Decryption
Password:
Open the file after decryption
You should only open a file that is from a safe and reliable source.
Fingerprint profile is not initialized yet.
Password replacement by Fingerprint disabled.
Note:
If you forget the password, you can use the Supervisor Password instead.
Warning about Desktop Search Tools
Powered by
OK
Cancel

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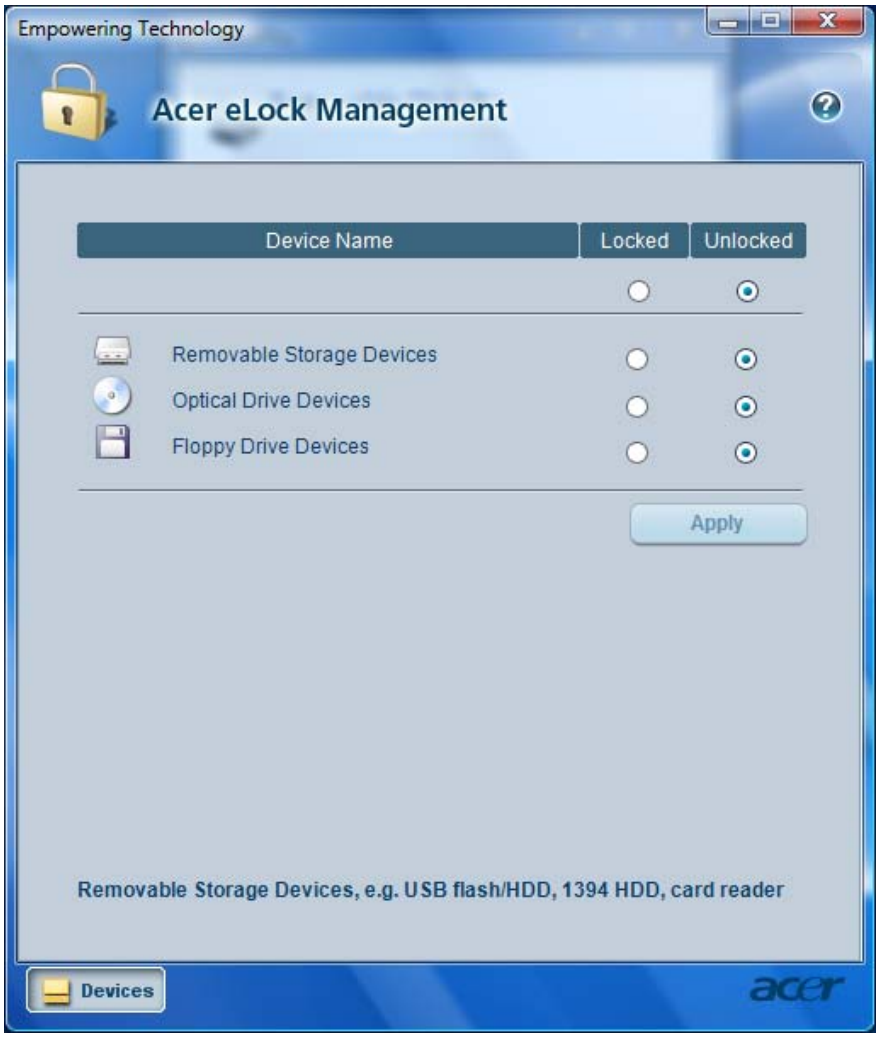
Acer eLock Management

Acer eLock Management is a security utility that allows you to lock your removable data, optical and floppy drives to ensure that data cannot be stolen while your notebook is unattended.

- Removable data devices - includes USB disk drives, USB pen drives, USB flash drives, USB MP3 drives, USB memory card readers, IEEE 1394 disk drives and any other removable disk drives that can be mounted as a file system when plugged into the system.
- Optical drive devices - includes any kind of CD-ROM or DVD-ROM drives.
- Floppy disk drives - 3.5-inch disks only.
- Interfaces - includes serial ports, parallel port, infrared (IR), and Bluetooth.

To activate Acer eLock Management, a password must be set first. Once set, you can apply locks to any of the devices. Lock(s) will immediately be set without any reboot necessary, and will remain locked after rebooting, until unlocked.

NOTE: If you lose your password, there is no method to reset it except by reformatting your notebook or taking your notebook to an Acer Customer Service Center. Be sure to remember or write down your password.



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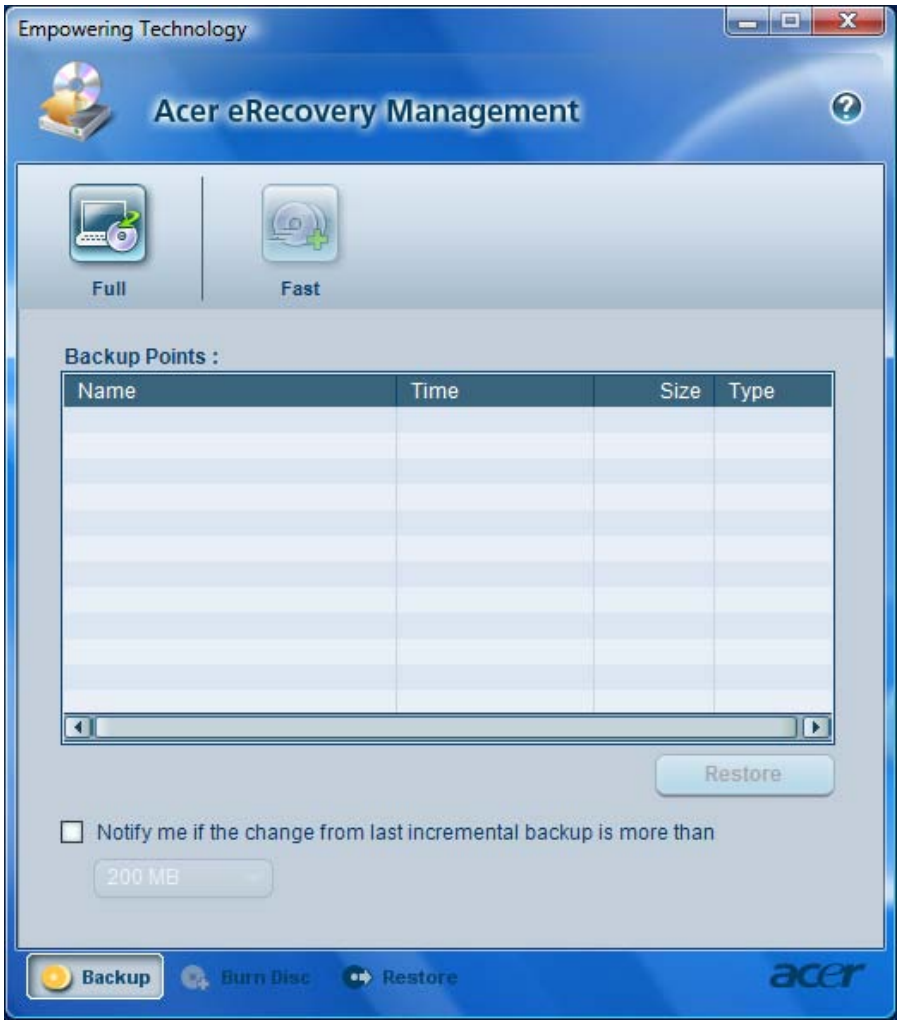
Acer eRecovery Management

Acer eRecovery Management is a powerful utility that does away with the need for recovery disks provided by the manufacturer. The Acer eRecovery Management utility occupies space in a hidden partition on your system's HDD. User-created backups are stored on D:\ drive. Acer eRecovery Management provides you with:

- Password protection.
- Recovery of applications and drivers.
- Image/data backup:
  - Back up to HDD (set recovery point).
  - Back up to CD/DVD.
- Image/data recovery tools:
  - Recover from a hidden partition (factory defaults).
  - Recover from the HDD (most recent user-defined recovery point).
  - Recover from CD/DVD.



For more information, please refer to "Acer eRecovery Management"

NOTE: If your computer did not come with a Recovery CD or System CD, please use Acer eRecovery Management's "System backup to optical disk" feature to burn a backup image to CD or DVD. To ensure the best results when recovering your system using a CD or Acer eRecovery Management, detach all peripherals (except the external Acer ODD, if your computer has one), including your Acer ezDock.

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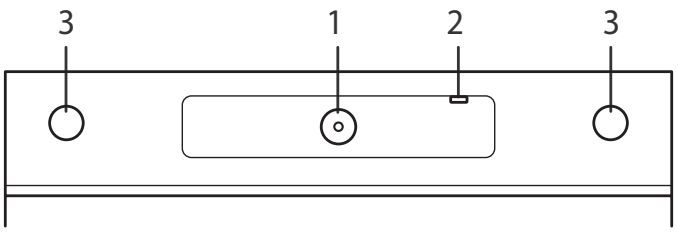
Acer eSettings Management

Acer eSettings Management allows you to inspect hardware specifications and to monitor the system health status. Furthermore, Acer eSettings Management enables you to optimize your Windows operating system, so your computer runs faster, smoother and better.

Acer eSettings Management also:

- Provides a simple graphical user interface for navigating.
- Displays general system status and advanced monitoring for power users.

Getting to know your Acer OrbiCam



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No.	Item
1	Lens
2	Power indicator
3	Rubber grip (selected models only)

Launching the Acer OrbiCam

To launch the Acer OrbiCam, double click on the Acer OrbiCam icon on the screen.

OR

Click Start > All programs > Acer > Acer OrbiCam. The Acer OrbiCam capture window appears.

Changing the Acer OrbiCam resolution

To change the capture resolution, click the displayed resolution button to select the desired resolution.

Using the Acer OrbiCam as webcam

The Acer OrbiCam is automatically selected as the capture device of any instant messenger (IM) application. To use the Acer OrbiCam as a webcam, open the IM service, then select the video/webcam feature. You can now broadcast from your location to an IM partner anywhere in the world.

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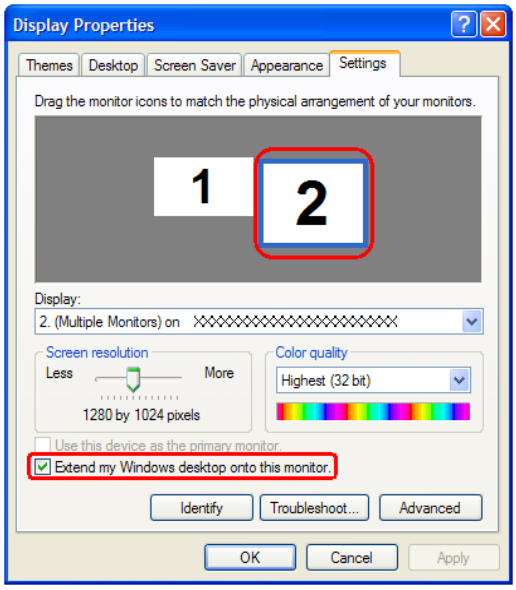
Using the System Utilities

NOTE: The system utilities work under Microsoft Windows XP only.

Acer GridVista (dual-display compatible)

NOTE: This feature is only available on certain models.

To enable the dual monitor feature of the notebook, first ensure that the second monitor is connected, then select **Start, Control Panel, Display** and click on **Settings**. Select the secondary monitor **(2)** icon in the display box and then click the check box **Extend my windows desktop onto this monitor**. Finally, click **Apply** to confirm the new settings and click **OK** to complete the process.



Acer GridVista is a handy utility that offers four pre-defined display settings so you can view multiple windows on the same screen. To access this function, please go to **Start > All Programs** and click on **Acer GridVista**. You may choose any one of the four display settings indicated below:

Double (vertical), Triple (primary at left), Triple (primary at right), or Quad Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

AcerGridVista is simple to set up:

1. Run Acer GridVista and select your preferred screen configuration for each display from the task bar.
2. Drag and drop each window into the appropriate grid.
3. Enjoy the convenience of a well-organized desktop.

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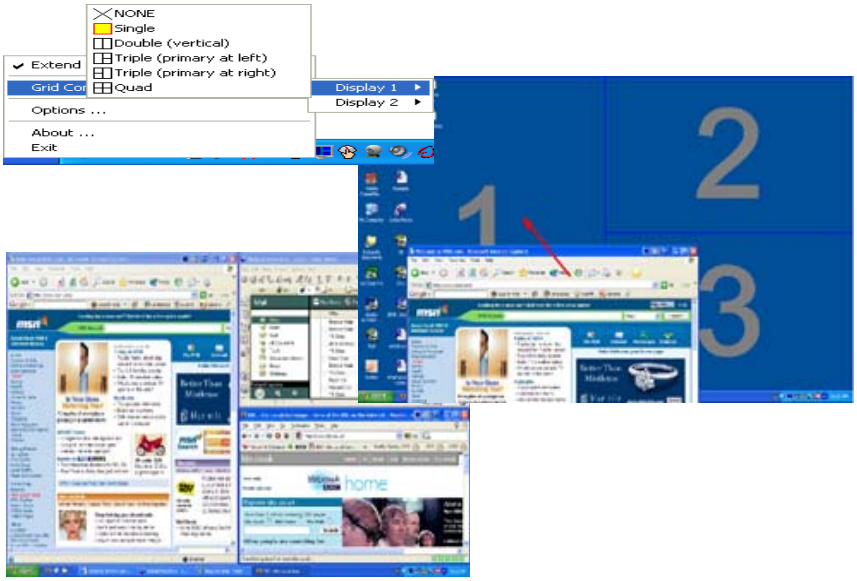
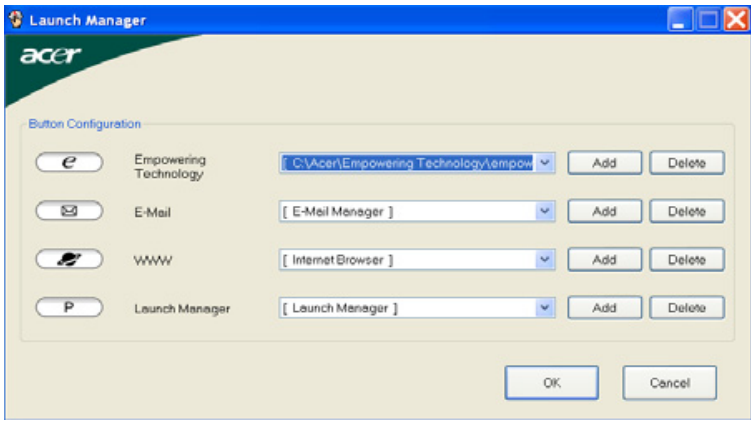


NOTE: Please ensure that the resolution setting of the second monitor is set to the manufacturer's recommended value.

Launch Manager



Launch Manager allows you to set the four easy-launch buttons (see their locations mentioned in “Easy-Launch Buttons”). You can access the Launch Manager by clicking Start > All Programs > Launch Manager to start the application.

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Processor

Item	Specification
CPU type	Intel® Core™ Duo processor (4 MB L2 cache, 1.66/1.83/2/2.16 GHz, 800 MHz FSB) or higher
Core logic	Intel® PM965 Chipset
CPU package	Intel 479 pin Micro-FCPGA
CPU core voltage	0.725~1.25V

CPU Fan True Value Table

TEST Condition: 35W@Ambient 35 degree C			
CPU Temperature		Fan Speed	Acoustic Level
Core 0	Core 1	(rpm)	(dBA)
86	86	3700	39
88	88	3450	36.5
91	91	3150	34.5
95	95	2800	31

BIOS

Item	Specification
BIOS vendor	Phoenix
BIOS Version	
BIOS ROM type	Flash ROM
BIOS ROM size	1MB
BIOS package	8 pin SOIC
Supported protocols	ACPI 1.0b/2.0/3.0, PCI 2.2, System/HDD Password Security Control, INT 13h Extensions, PnP BIOS 1.0a, SMBIOS 2.4, Simple Boot Flag 1.0, Boot Block, PCI Bus Power Management Interface Specification, USB1.1/2.0, IEEE 1394 1.0, USB/1394 CD-ROM Boot Up support, PC Card 95 (PCMCIA 3.0 Compliant Device), IrDA 1.0, Intel AC97 CNR Specification, WfM 2.0, PXE (Preboot Execution Environment), BIS 1.0 (Boot Integrity Service Application Program Interface), PC99a and Mobile PC2001 Compliant, Intel Enhanced SpeedStep Technology
BIOS password control	Set by setup manual

NOTE: If you need to check PXE version, press F2 to enter BIOS then enable boot from LAN function. After that, power off the system and remove the HDD. Last, reboot the laptop. Then you will see PXE version displaying on the screen.

Second Level Cache

Item	Specification
Cache controller	Built-in CPU
Cache size	4MB
1st level cache control	Always enabled
2st level cache control	Always enabled
Cache scheme control	Fixed in write-back

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System Memory

Item	Specification
Memory controller	Built-in Intel® PM965
Memory size	0MB (no on-board memory)
DIMM socket number	2 sockets
Supports memory size per socket	2GB
Supports maximum memory size	4GB (by two 1024MB SO-DIMM module)
Supports DIMM type	DDR 2 Synchronous DRAM
Supports DIMM Speed	533/667 MHz
Supports DIMM voltage	1.8V and 0.9V
Supports DIMM package	200-pin soDIMM
Memory module combinations	You can install memory modules in any combinations as long as they match the above specifications.

Memory Combinations

Slot 1	Slot 2	Total Memory
0MB	128MB	128MB
0MB	256MB	256MB
0MB	512MB	512MB
0MB	1024MB	1024MB
0MB	2048MB	2048MB
128MB	128MB	256MB
128MB	256MB	384MB
128MB	512MB	640MB
128MB	1024MB	1152MB
128MB	2048MB	2176MB
256MB	128MB	384MB
256MB	256MB	512MB
256MB	512MB	768MB
256MB	1024MB	1280MB
256MB	2048MB	2304MB
512MB	128MB	640MB
512MB	256MB	768MB
512MB	512MB	1024MB
512MB	1024MB	1536MB
512MB	2048MB	2560MB
1024MB	0MB	1024MB
1024MB	128MB	1152MB
1024MB	256MB	1280MB
1024MB	512MB	1536MB
1024MB	1024MB	2048MB
1024MB	2048MB	3072MB
2048MB	2048MB	4096MB

NOTE: Above table lists some system memory configurations. You may combine DIMMs with various capacities to form other combinations. On above table, the configuration of slot 1 and slot 2 could be reversed.

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LAN Interface

Item	Specification
Chipset	Broadcom 5787M
Supports LAN protocol	10/100/1000 Ethernet Giga LAN
LAN connector type	RJ45
LAN connector location	Left side
Features	Integrated 10/100/1000 BASE-T transceiver Wake on LAN support compliant with ACPI 2.0 PCI v1.1 68pin-QFN package

Modem Interface

Item	Specification
Data modem data baud rate (bps)	56K
Supports modem protocol	V.92
Modem connector type	RJ11
Modem connector location	Right side

Bluetooth Interface

Item	Specification
Chipset	FOXCON T60H928.01 Bluetooth miniUSB module
Data throughput	723 bps (full speed data rate)
Protocol	Bluetooth 2.0+EDR
Interface	USB 1.1
Connector type	USB

Wireless Module 802.11a/b/g/n

Item	Specification
Chipset	Kedron-n 3945abg
Data throughput	11~54 Mbps
Protocol	802.11b/g & abgn
Interface	PCI

Hard Disk Drive Interface

Item			
Vendor & Model Name	Seagate 40G ST9402112A Toshiba MK4025GAS Hitachi HTS421240H9AT00 WD WD400UE-22HCT0 Samsung M40MP0402H	Seagate ST96812A Seagate ST960821A Toshiba MK6025GAS HGST HTS541260H9AT00 WD WD600UE-22HCT0	TOSHIBA MK8025GAS HITACHI HTS421280H9AT00 SEAGATE ST9808210A SEAGATE ST98823A TOSHIBA MK8026GAX HGST HTS541280H9AT00 WD WD800UE-22HCT0
Capacity (MB)	40000	60000	80000
Bytes per sector	512	512	512
Data heads	2	3 (for Hitachi and Seagate) 4 (for Toshiba)	4 (for Hitachi) 3 (for Seagate)

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Hard Disk Drive Interface

Item			
Drive Format			
Disks	1	2	2
Spindle speed (RPM)	4200 RPM	4200 RPM	4200 RPM
Performance Specifications			
Buffer size	2048KB	8192KB	8192KB
Interface	ATA/ATAPI-6; ATA-6	ATA/ATAPI-6; ATA-6	ATA/ATA-6; ATA-6
Max. media transfer rate (disk-buffer, Mbytes/s)	372	350	350
Data transfer rate (host~buffer, Mbytes/s)	100 MB/Sec. Ultra DMA mode-5	100 MB/Sec. Ultra DMA mode-5	100 MB/Sec. Ultra DMA mode-5
DC Power Requirements			
Voltage tolerance	5V(DC) +/- 5%	5V(DC) +/- 5%	5V(DC) +/- 5%

DVD-Dual Interface

Item	Specification	
Vendor & model name	LITEON SOSW-833S PIONEER DVR-K16RA	
Performance Specification	With CD Diskette	With DVD Diskette
Transfer rate (KB/sec)	Sustained: Max 3.6Mbytes/sec	Sustained: Max 10.8Mbytes/sec
Buffer Memory	2MB	
Interface	Enhanced IDE(ATAPI) compatible	
Applicable disc format	Support disc formats 1. Reads data in each CD-ROM, CD-ROM XA, CD-1, Video CD, CD-Extra and CD-Text 2. Reads data in Photo CD (single and Multi-session) 3. Reads standard CD-DA 4. Reads and writes CD-R discs 5. Reads and writes CD-RW discs 6. Reads and writes in each DVD+R/RW (Ver. 1.1) 7. Reads data in each DVD-ROM and DVD-R (Ver. 2.0 for Authoring) 8. Reads and writes in each DVD-R (Ver. 2.0 for general), DVD-RW and DVD+R/RW (Ver1.1)	
Loading mechanism	Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release	
Power Requirement		
Input Voltage	5 V +/- 5 % (Operating)	

Audio Interface

Item	Specification
Audio Controller	Realtek ALC888S
Audio onboard or optional	Built-in

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Audio Interface

Item	Specification
Mono or Stereo	Stereo
Resolution	18 bit stereo full duplex
Compatibility	HD audio Interface; S/PDIF output for PCM or AC-3 content
Sampling rate	44.1k/48k/96k/192kHZ sample rate
Internal microphone	Yes
Internal speaker / Quantity	Yes/2(1.5W speakers)
Supports PnP DMA channel	DMA channel 0 DMA channel 1
Supports PnP IRQ	IRQ10, IRQ11

USB Port

Item	Specification
Chipset	Built-in ICH8M
USB Compliancy Level	2.0
OHCI	USB 1.1 and USB 2.0 Host controller
Number of USB port	4
Location	One on the left side; three on the rear side
Serial port function control	Enable/Disable by BIOS Setup

PCMCIA Port

Item	Specification
PCMCIA controller	TI PCI 7412
Supports card type	Type-II
Number of slots	One type-II
Access location	Left side
Supports ZV (Zoomed Video) port	No ZV support
Supports 32 bit CardBus	Yes

System Board Major Chips

Item	Controller
Core logic	IIntel® PM965 Chipset
LAN	Broadcom 5787M
USB 2.0	Built in ICH8M
Super I/O controller	NS 87383
MODEM	Built-in ICH7-M
Bluetooth	Built-in ICH7-M
Wireless 802.11 a+b+g+n	Kedron-n 3945
PCMCIA	TI PCI 7412
Audio	Realtek ALC888S

Keyboard

Item	Specification
Keyboard controller	KBC8769LDG

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Keyboard

Item	Specification
Total number of keypads	88-/89-key
Windows logo key	Yes
Internal & external keyboard work simultaneously	Plug USB keyboard to the USB port directly: Yes

Battery

Item	Specification
Vendor & model name	BATTERY PACK SANYO LI-ION 8 CELL2.4, 4800MAH BATTERY PACK SONY LI-ION 8CELL2.4, 4800MAH BATTERY PACK SIMPLO LI-ION 8 CELL2.4, 4800MAH BATTERY PACK PANASONIC LI-ION 8 CELL2.4, 4800MAH
Battery Type	Li-ion
Pack capacity	4000mAH/4800 mAH
Number of battery cell	8
Package configuration	4 cells in series, 2 series in parallel
Normal voltage	11.1V
Charge voltage	16.8+-0.2v

LCD 15.4” inch

Item	Specification			
Vendor & model name	SAMSUNG LTN190-M2-000 NON-GLARE	CMO M190A1-L01 NON-GLARE	SAMSUNG LTM190-M2-L01-G GLARE TYPE	CMO M190A1-L03 GLARE TYPE
Screen Diagonal (mm)	19.1 inches	19.1 inches	19.1 inches	19.1 inches
Active Area (mm)	304.1x228.1	304.1x228.1	304.1x228.1	
Display resolution (pixels)	1440x900 WXGA+	1440x900 WXGA+	1440x900 WXGA+	1440x900 WXGA+
Pixel Pitch	0.297x0.297	0.099x0.297	0.297x0.297	
Pixel Arrangement	R.G.B. Vertical Stripe	R.G.B. Vertical Stripe	R.G.B. Vertical Stripe	R.G.B. Vertical Stripe
Display Mode	Normally White	Normally White	Normally White	Normally White
Typical White Luminance (cd/m^2) also called Brightness	300	300	300	300
Luminance Uniformity	N/A	N/A	70	70
Contrast Ratio	300	300	250	250
Response Time (Optical Rise Time/Fall Time)msec	8	8	8	8
Nominal Input Voltage VDD	+3.3V Typ.	+3.3V	3.3V	3.3V
Typical Power Consumption (watt)	5.6/5.7	3.96	N/A	N/A
Weight	550	570	600	600
Physical Size(mm)	317.3x242.0x6.0	317.3x242.0x5.9	317.3x242.0x6.5	317.3x242.0x6.5
Electrical Interface	1 channel LVDS	1 channel LVDS	1 channel LVDS	1 channel LVDS

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LCD 15.4” inch

Item	Specification			
Support Color	262K colors (RGB 6-bit data driver)	262,144	262,144	262,144
Viewing Angle (degree) Horizontal: Right/Left Vertical: Upper/Lower	 40/40 10/30	 45/45 15/35	 40/40 20/40	 40/40 20/40
Temperature Range(° C) Operating Storage (shipping)	 0 to +50 -20 to +60	 0 to +50 -25 to +60	 0 to +50 -20 to +60	 0 to +50 -20 to +60

LCD Inverter

Item	Specification
Vendor & model name	Darfon/V189-301GP
Brightness conditions	N/A
Input voltage (V)	9~21
Input current (mA)	2.56 (max)
Output voltage (V, rms)	780V (2000V for kick off)
Output current (mA, rms)	6.5 (max)
Output voltage frequency (k Hz)	65K Hz (max)

AC Adaptor

Item	Specification
Input rating	90V AC to 264V AC, 47Hz to 63Hz
Maximum input AC current	1.7A
Inrush current	220A@115VAC 220A@230VAC
Efficiency	82% min. @115VAC input full load

System Power Management

ACPI mode	Power Management
Mech. Off (G3)	All devices in the system are turned off completely.
Soft Off (G2/S5)	OS initiated shutdown. All devices in the system are turned off completely.
Working (G0/S0)	Individual devices such as the CPU and hard disc may be power managed in this state.
Suspend to RAM (S3)	CPU set power down VGA Suspend PCMCIA Suspend Audio Power Down Hard Disk Power Down CD-ROM Power Down Super I/O Low Power mode
Save to Disk (S4)	Also called Hibernation Mode. System saves all system states and data onto the disc prior to power off the whole system.

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System Utilities

BIOS Setup Utility

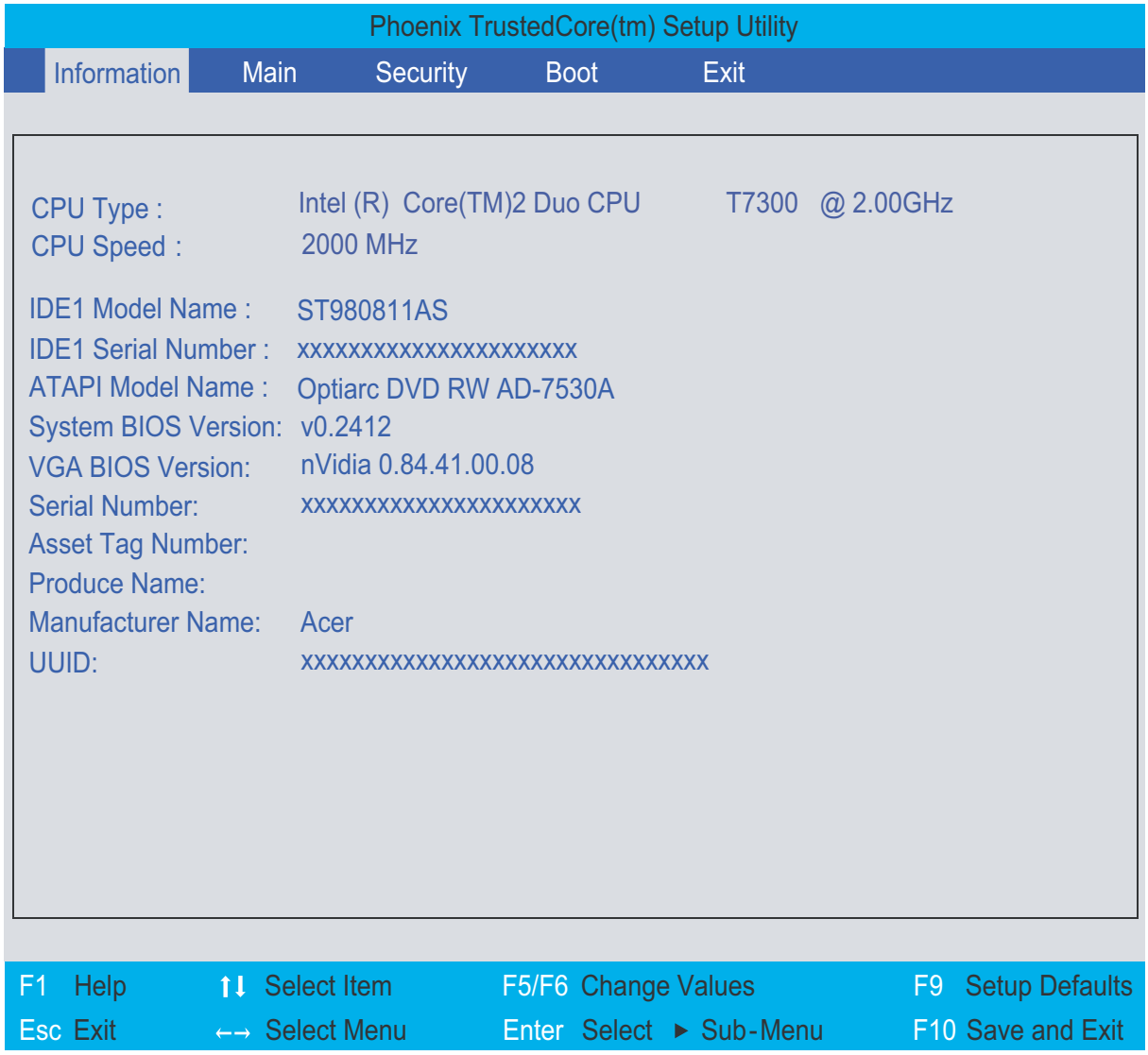
The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/ Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press F2 during POST (when "Press <F2> to enter Setup" message is prompted on the bottom of screen).

Press F2 to enter setup. The default parameter of F12 Boot Menu is set to "disabled". If you want to change boot device without entering BIOS Setup Utility, please set the parameter to "enabled".

Press <F12> during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.



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Navigating the BIOS Utility

There are six menu options: Info., Main, System Devices, Security, Boot, and Exit.

Follow these instructions:

- To choose a menu, use the cursor left/right keys (← →).
- To choose a parameter, use the cursor up/down keys (↑ ↓).
- To change the value of a parameter, press F5 or F6.
- A plus sign (+) indicates the item has sub-items. Press ENTER to expand this item.
- Press ESC while you are in any of the menu options to go to the Exit menu.
- In any menu, you can load default settings by pressing F9. You can also press F10 to save any changes made and exit the BIOS Setup Utility.

NOTE: You can change the value of a parameter if it is enclosed in square brackets. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values. **Please note that system information is subject to different models**.

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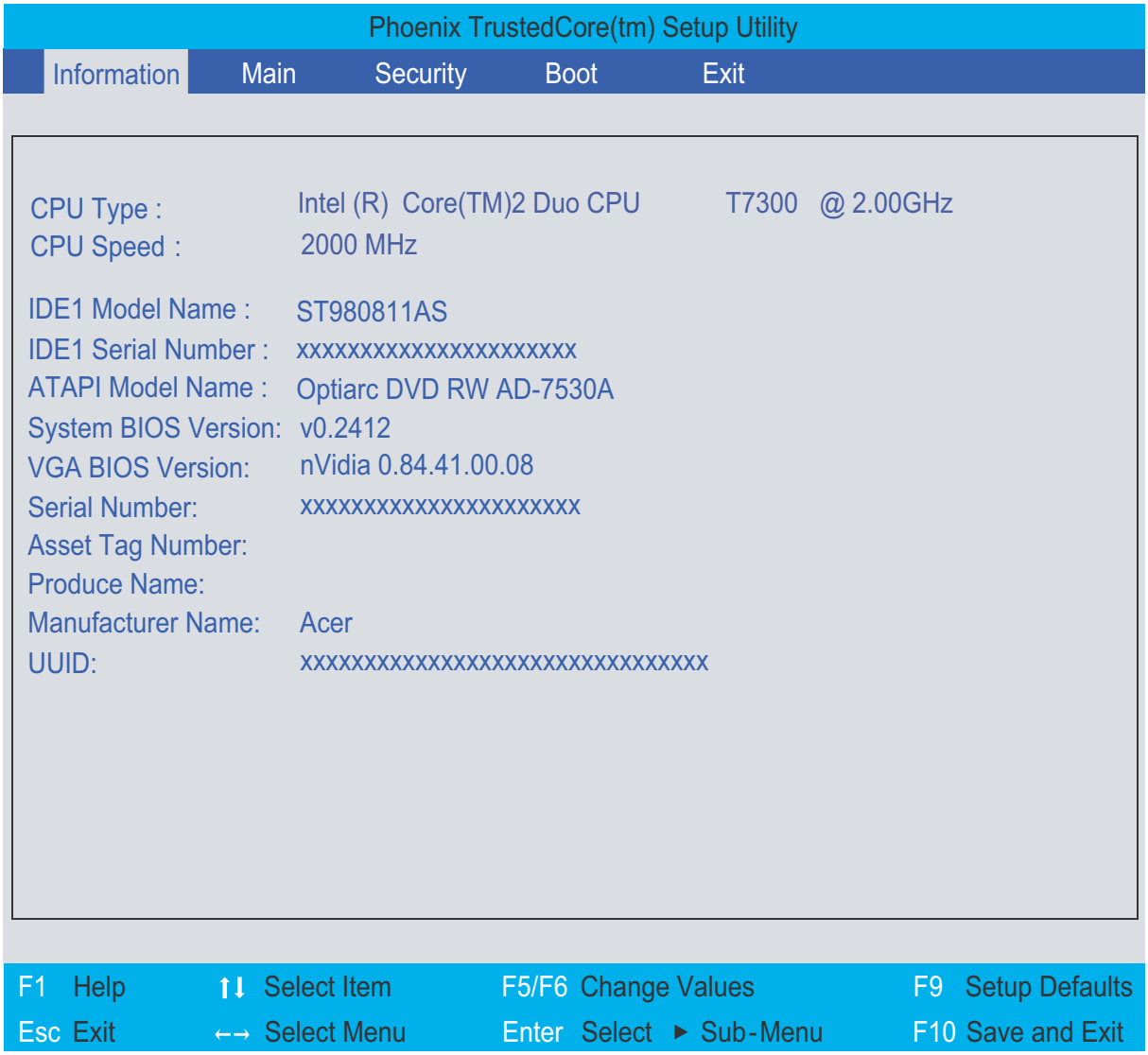
Information



NOTE: The system information is subject to different models.

Parameter	Description
CPU Type / CPU Speed	This field shows the CPU type and speed of the system.
IDE1 Model Name	This field shows the model name of HDD installed on primary IDE master.
IDE1 Serial Number	This field displays the serial number of HDD installed on primary IDE master.
ATAPI Model Name	This field displays the model number of the installed ATAPI drive.
System BIOS Version	Displays system BIOS version.
VGA BIOS Version	This field displays the VGA firmware version of the system.
Serial Number	This field displays the serial number of this unit.
Asset Tag Number	This field displays the asset tag number of the system.
Product Name	This field shows product name of the system.
Manufacturer Name	This field displays the manufacturer of this system.
UUID Number	This will be visible only when an internal LAN device is presenting. UUID=32bytes

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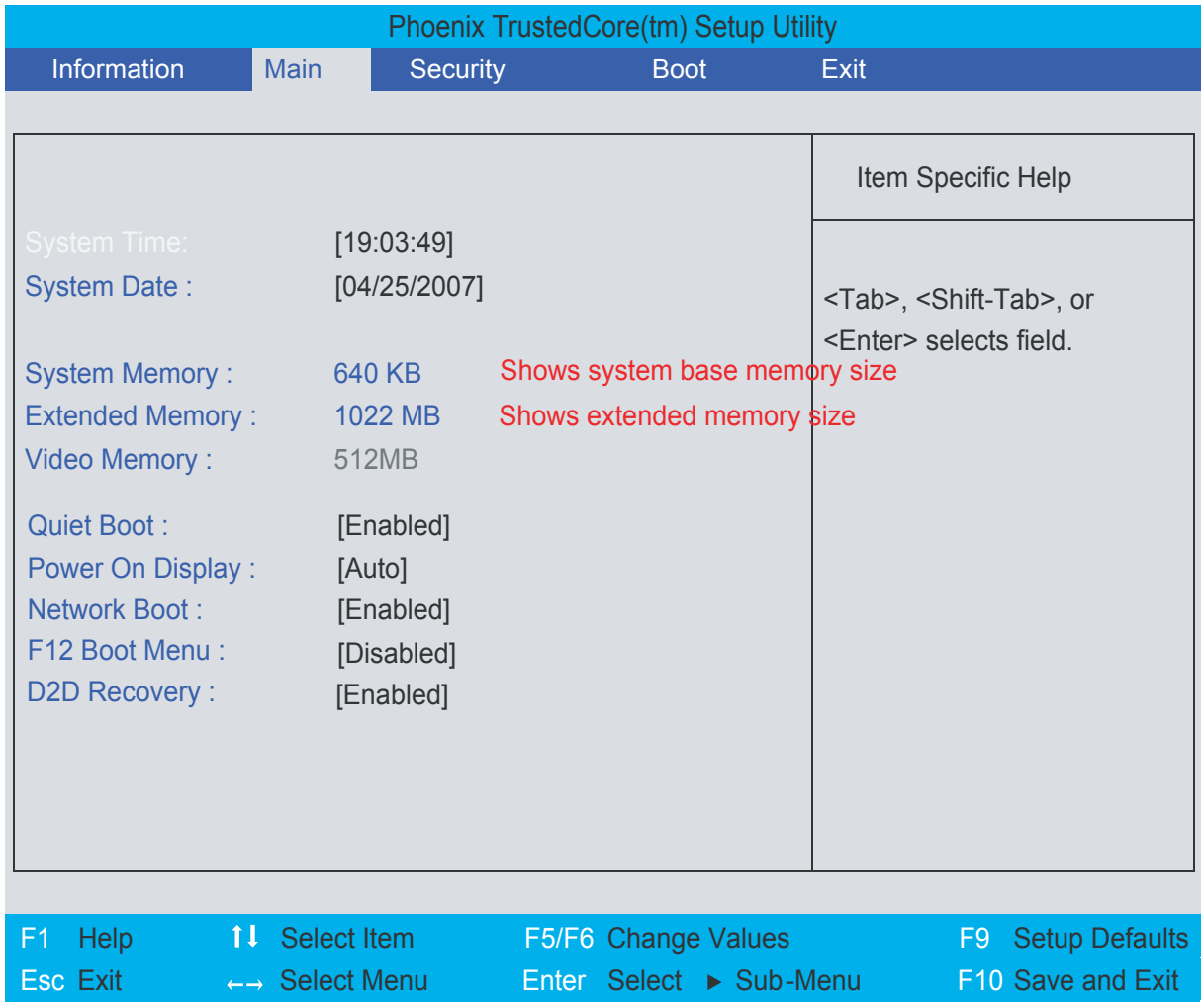
Main

The Main screen displays a summary of your computer hardware information, and also includes basic setup parameters. It allows the user to specify standard IBM PC AT system parameters.



NOTE: The screen above is for your reference only. Actual values may differ.

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The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Format/Option
System Time	Sets the system time. The hours are displayed with 24-hour format.	Format: HH:MM:SS (hour:minute:second) System Time
System Date	Sets the system date.	Format MM/DD/YYYY (month/day/ year) System Date
System Memory	This field reports the memory size of the system. Memory size is fixed to 640MB	
Extended Memory	This field reports the memory size of the extended memory in the system. Extended Memory size=Total memory size-1MB	
Video Memory	Shows the Video memory size.	
Quiet Boot	Determines if Customer Logo will be displayed or not; shows Summary Screen is disabled or enabled. Enabled: Customer Logo is displayed, and Summary Screen is disabled. Disabled: Customer Logo is not displayed, and Summary Screen is enabled.	Option: **Enabled** or Disabled
Power on display	Auto: During power process, the system will detect if any display device is connected on external video port. If any external display device is connected, the power on display will be in CRT (or projector) only mode. Otherwise it will be in LCD only mode. Both: Simultaneously enable both the integrated LCD screen and the system's external video port (for an external CRT or projector).	Option: **Auto** or Both
Network Boot	Enables, disables the system boot from LAN (remote server).	Option: **Enabled** or Disabled
F12 Boot Menu	Enables, disables Boot Menu during POST.	Option: **Disabled** or Enabled
D2D Recovery	Enables, disables D2D Recovery function. The function allows the user to create a hidden partition on hard disc drive to store operation system and restore the system to factory defaults.	Option: **Enabled** or Disabled

NOTE: The sub-items under each device will not be shown if the device control is set to disable or auto. This is because the user is not allowed to control the settings in these cases.

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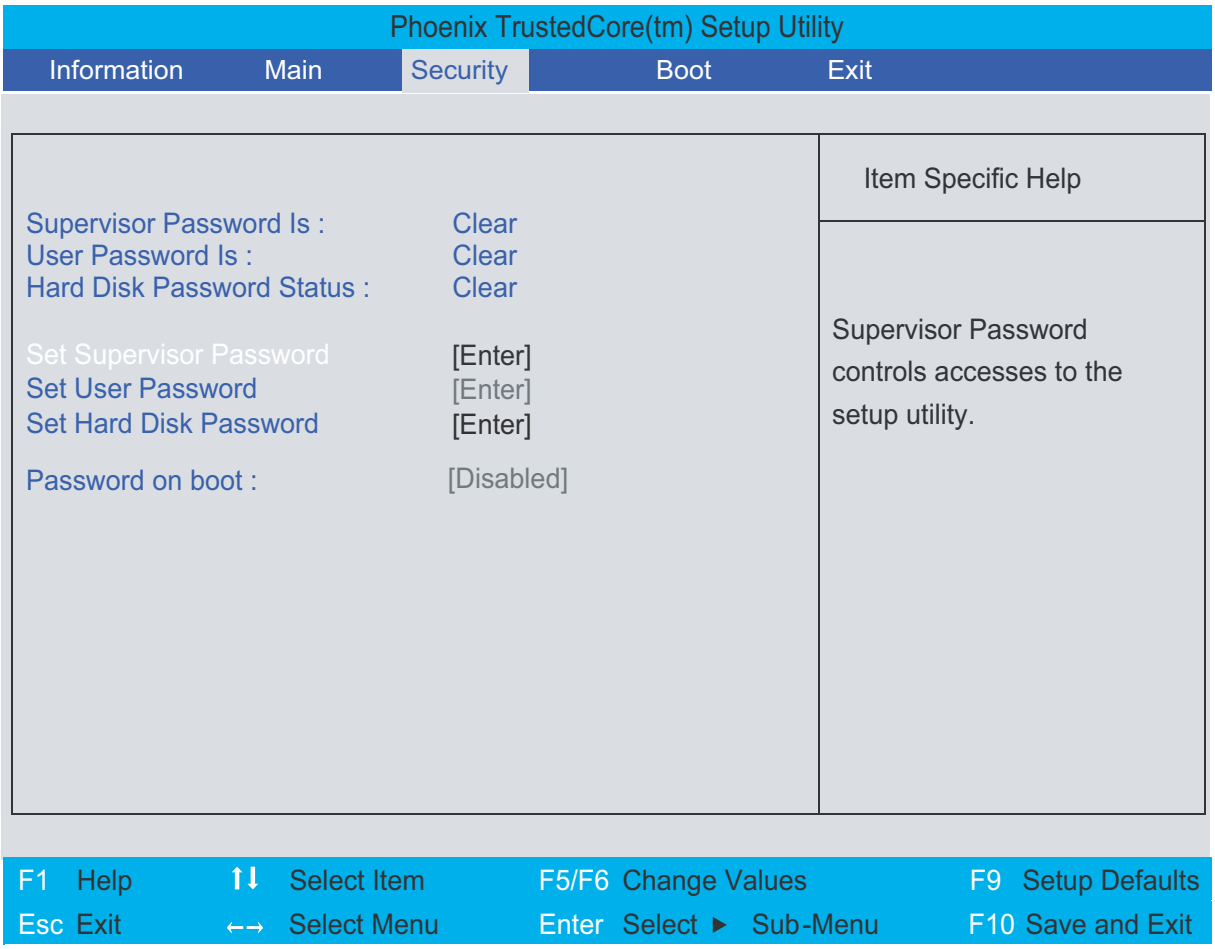
Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.



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The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

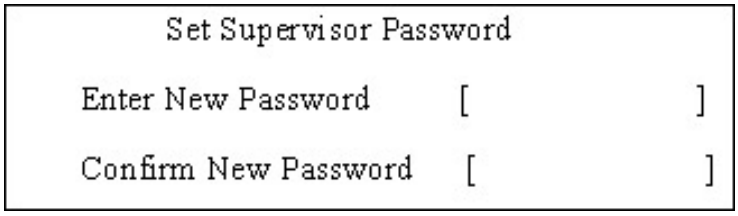
Parameter	Description	Option
Supervisor Password is	Shows the setting of the Supervisor password	**Clear** or Set
User Password is	Shows the setting of the user password.	**Clear** or Set
Hard Disk Password Status	Shows the setting of the hard disk password.	**Clear** or Set
Set Supervisor Password	Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters.	
Set User Password	Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters.	
Set Hard Disk Password	Press Enter to set the hard disk password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters.	
Password on Boot	Defines whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervisor password for changes and should be grayed out if the user password was used to enter setup.	**Disabled** or Enabled

NOTE: When you are prompted to enter a password, you have three tries before the system halts. Don't forget your password. If you forget your password, you may have to return your notebook computer to your dealer to reset it.

Setting a Password

Follow these steps as you set the supervisor, user, or hard disk password:

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the ENTER key. The Set Supervisor Password box appears:



2. Type a password in the "Enter New Password" field. The password length can not exceed 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the "Confirm New Password" field.

IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

3. Press ENTER. After setting the password, the computer sets the Supervisor Password parameter to "Set".
4. If desired, you can opt to enable the Password on boot parameter.
5. When you are done, press F10 to save the changes and exit the BIOS Setup Utility.

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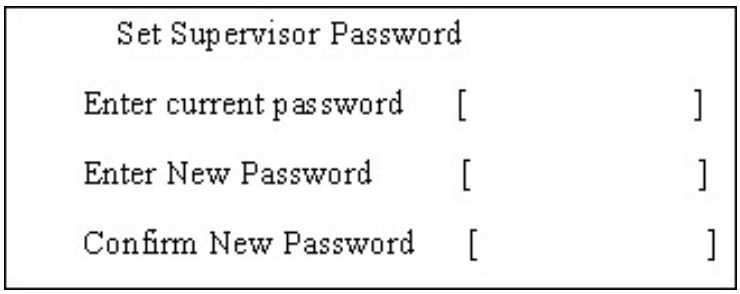
Removing a Password

Follow these steps:

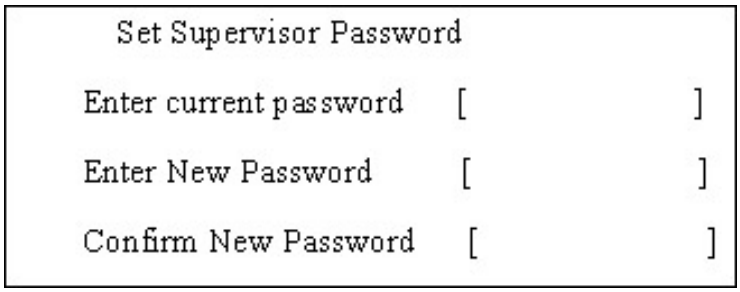
1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the ENTER key. The Set Supervisor Password box appears:



2. Type the current password in the Enter Current Password field and press ENTER.
3. Press ENTER twice **without** typing anything in the Enter New Password and Confirm New Password fields. The computer then sets the Supervisor Password parameter to “Clear”.
4. When you have changed the settings, press F10 to save the changes and exit the BIOS Setup Utility.

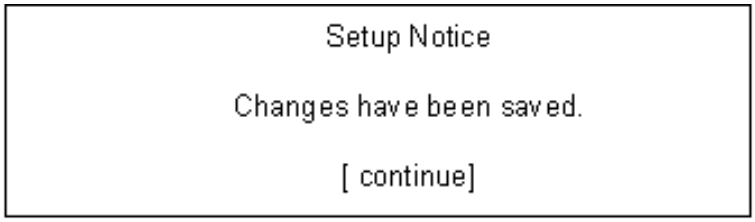
Changing a Password

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the ENTER key. The Set Supervisor Password box appears:



2. Type the current password in the Enter Current Password field and press ENTER.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press ENTER. After setting the password, the computer sets the Supervisor Password parameter to “Set”.
5. If desired, you can enable the Password on boot parameter.
6. When you are done, press F10 to save the changes and exit the BIOS Setup Utility.

If the verification is OK, the screen will display as following.



The password setting is complete after the user presses F10.

If the current password entered does not match the actual current password, the screen will show you the Setup Warning.

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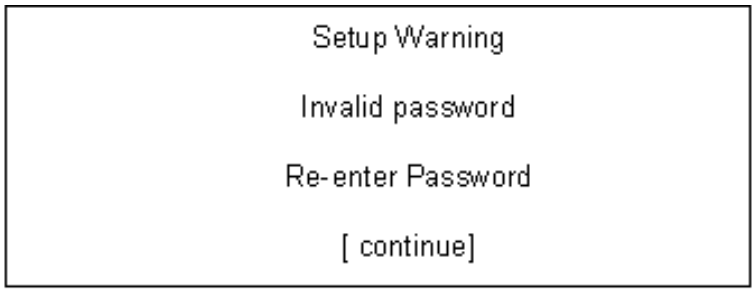
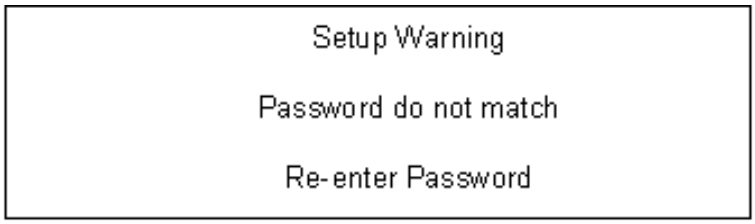


If the new password and confirm new password strings do not match, the screen will display the following message.



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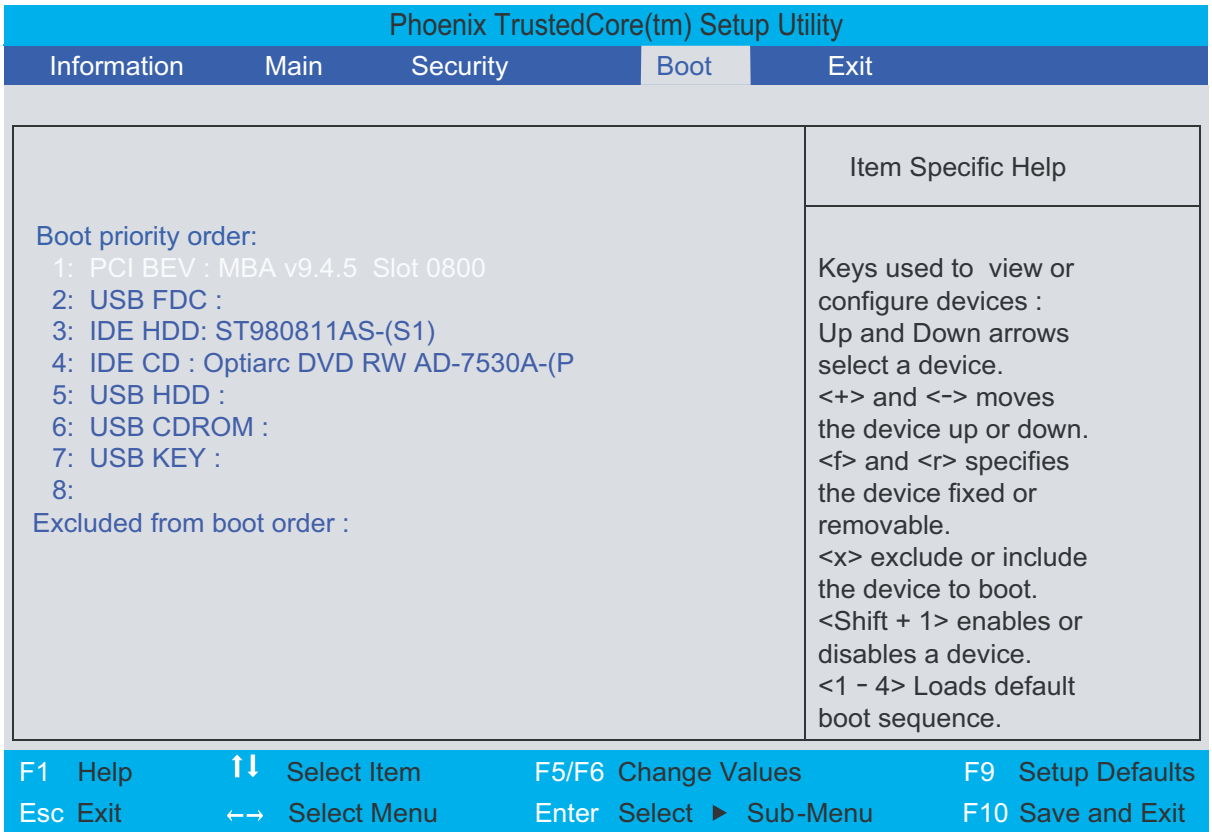
Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the diskette drive in module bay, the onboard hard disk drive, and the CD-ROM in module bay.



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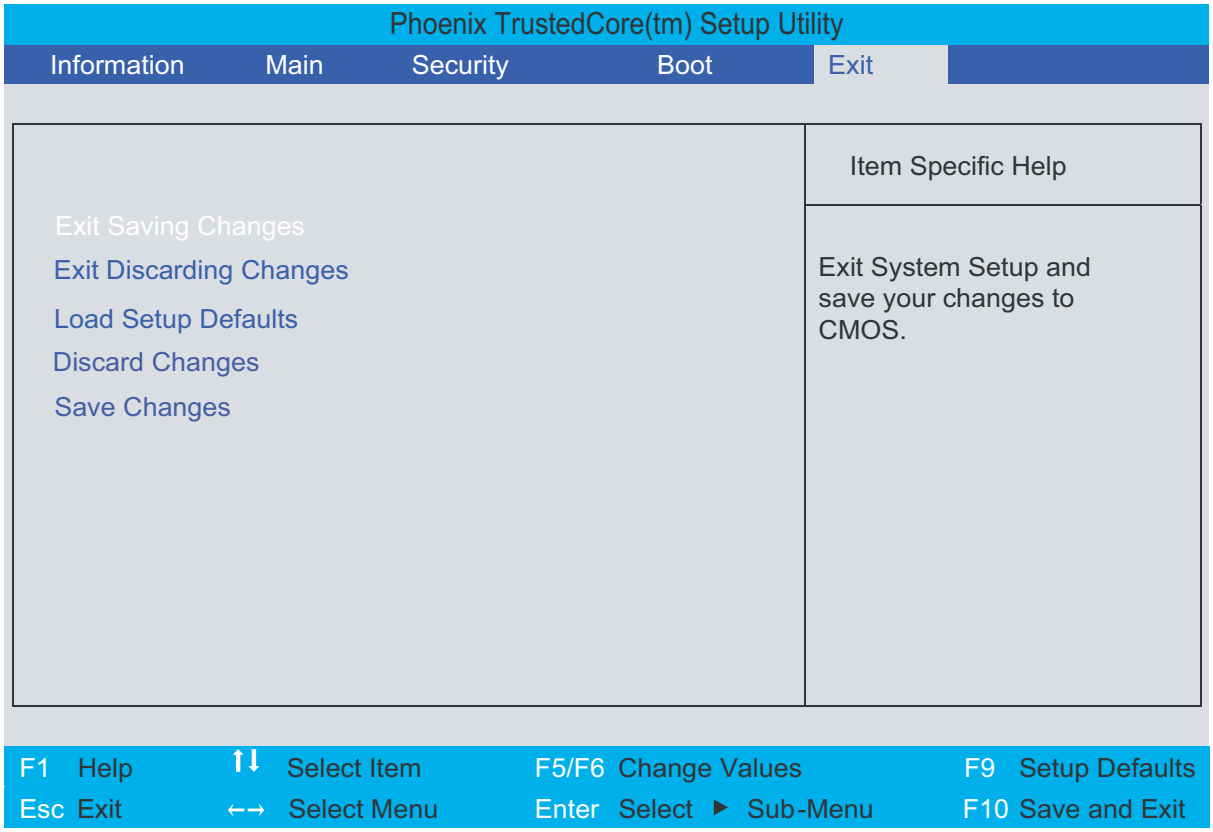
Exit

The Exit screen contains parameters that help safeguard and protect your computer from unauthorized use.



The table below describes the parameters in this screen.

Parameter	Description
Exit Saving Changes	Exit System Setup and save your changes to CMOS.
Exit Discarding Changes	Exit utility without saving setup data to CMOS.
Load Setup Default	Load default values for all SETUP item.
Discard Changes	Load previous values from CMOS for all SETUP items.
Save Changes	Save Setup Data to CMOS.

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BIOS Flash Utility

The BIOS flash memory update is required for the following conditions:

- ❑ New versions of system programs
- ❑ New features or options
- ❑ Restore a BIOS when it becomes corrupted.

Use the Phlash utility to update the system BIOS flash ROM.

NOTE: If you do not have a crisis recovery diskette at hand, then you should create a **Crisis Recovery Diskette** before you use the Phlash utility.

NOTE: Do not install memory-related drivers (XMS, EMS, DPMI) when you use the Phlash.

NOTE: Please use the AC adaptor power supply when you run the Phlash utility. If the battery pack does not contain enough power to finish BIOS flash, you may not boot the system because the BIOS is not completely loaded.

Follow the steps below to run the Phlash.

1. Prepare a bootable diskette.
2. Copy the flash utilities to the bootable diskette.
3. Then boot the system from the bootable diskette. The flash utility has auto-execution function.

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Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting.

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Small Philips screw driver
- Philips screwdriver
- Plastic flat head screw driver
- Tweezers

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components. When you remove the stripe cover, please be careful not to scrape the cover.

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General Information

Before You Begin

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.
3. Remove the battery pack.

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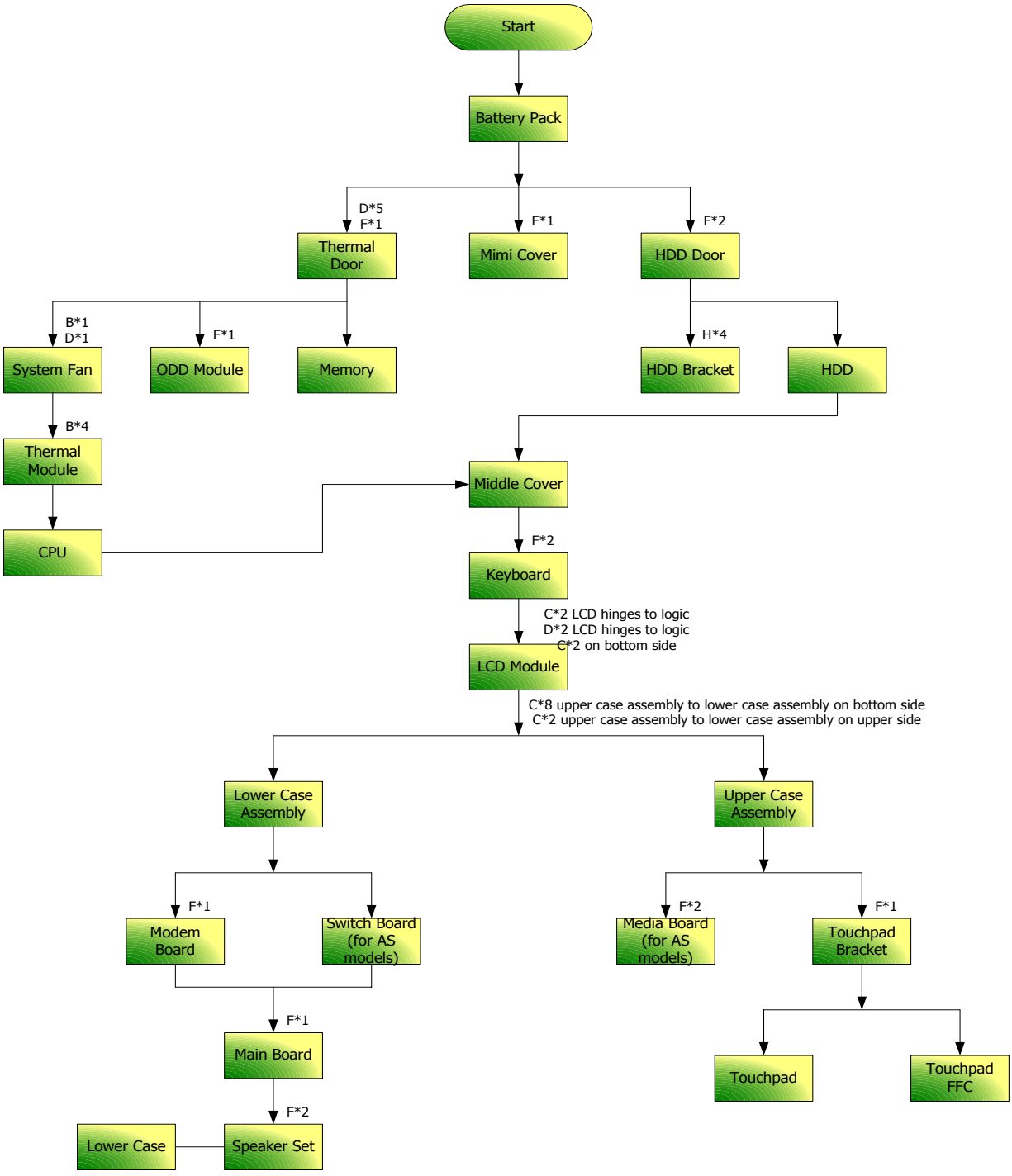
Disassembly Procedure Flowchart

The flowchart on the succeeding page gives you a graphic representation on the entire disassembly sequence and instructs you on the components that need to be removed during servicing. For example, if you want to remove the system board, you must first remove the keyboard, then disassemble the inside assembly frame in that order.



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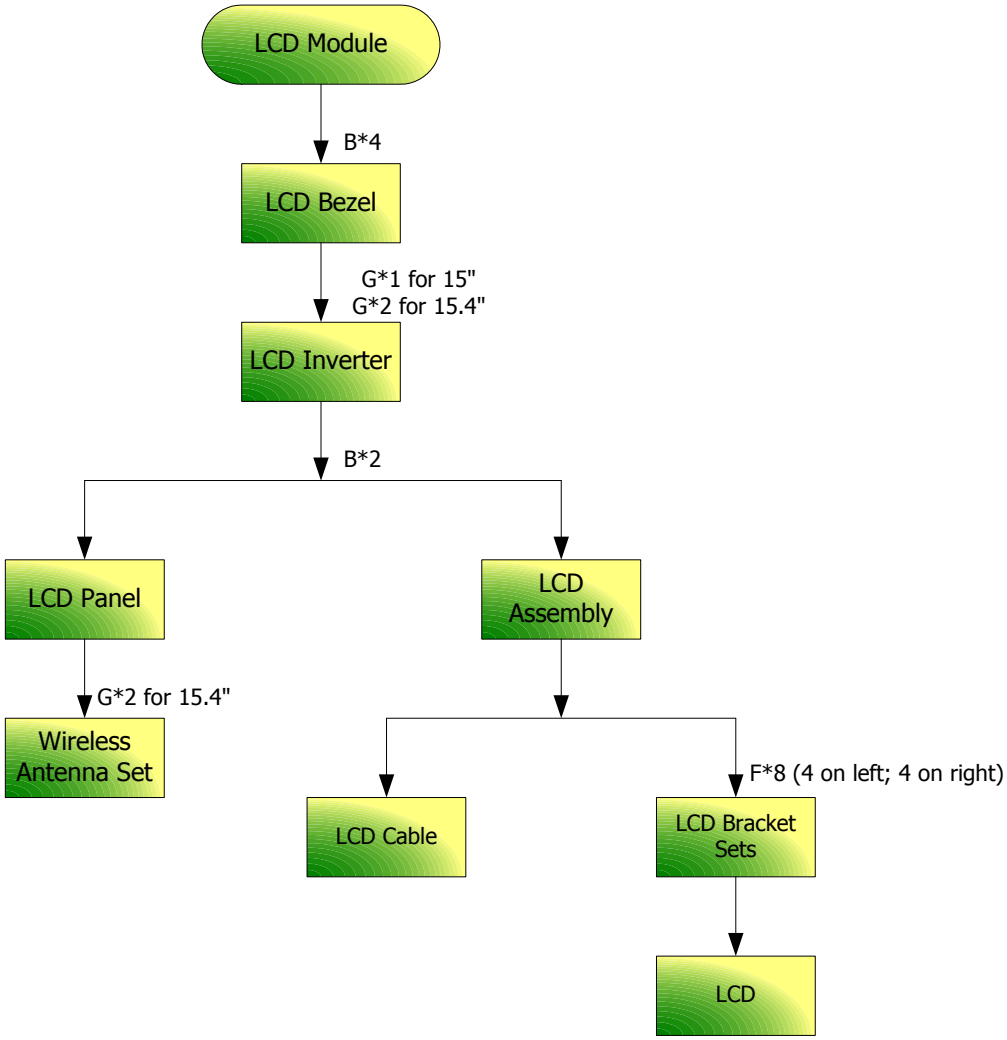

Screw List

Item	Description	Part Number
A	SCREW M2.5*3(NL)	86.TAVV5.001
B	SCREW M2.5*6(NL)	86.TAVV5.002
C	SCREW M2.5*10(NL)	86.TAVV5.003
D	SCREW M2.5*15(NL)	86.TAVV5.004
E	SCREW M2*2.2	86.TAVV5.005
F	SCREW M2*3(NL)	86.TAVV5.006
G	SCREW M2*4	86.TAVV5.007
H	SCREW M3*4(NL)	86.TAVV5.008
I	SCREW D-SUB 4#X40* 1/5-NI (NL)	86.TAVV5.009

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Removing the Battery Pack

1. Unlock the battery lock (move the battery lock to the right).
2. Slide the battery release latch then remove the battery.

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Removing the HDD Modules/ODD Module/Memory/Wireless LAN Card/VGA Board/Thermal Module and the LCD Module

To access the intenal laptop components, you have to first remove the back panel.

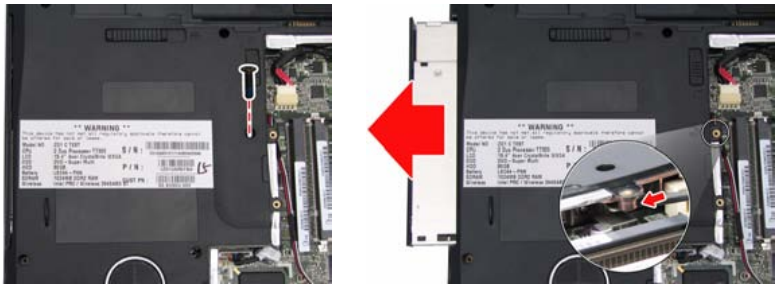
1. Remove the nine screws fastening the back panel.
2. Lift the back panel up as shown.

Removing the HDD Module

3. Pull out the HDD tab.
4. Pull up the HDD module by the two brackets as shown.
5. Pull out the HDD module as shown.

Removing the ODD Module

6. Remove the screw fastening the ODD module.
7. Use a flat screwdriver to gently push out the ODD module.



Removing the Memory and Wireless LAN Card

8. Pull out the snaps securing the memory in place. The memory will pop up.

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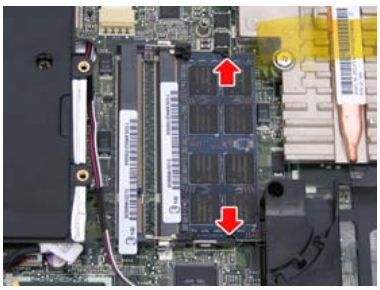
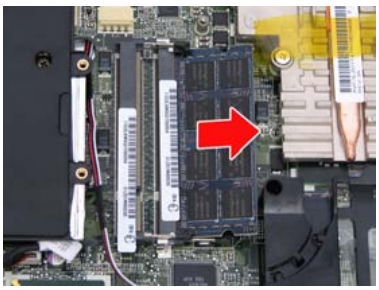
9. Remove the memory from the DIMM socket (If the notebook has two memory, then repeat this step).

10. Disconnect the main and auxiliary antenna from the wireless LAN card.
11. Remove the two screws fastening the wireless LAN card.
12. Take out the wireless LAN card from the main unit.

Removing the VGA Board and Thermal Module

13. Remove the four screws fastening the VGA board.
14. Take out the VGA board from the main unit.
15. Disconnect the system fan cable as shown.

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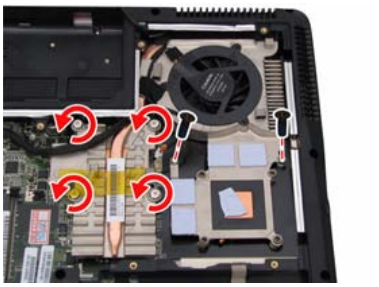
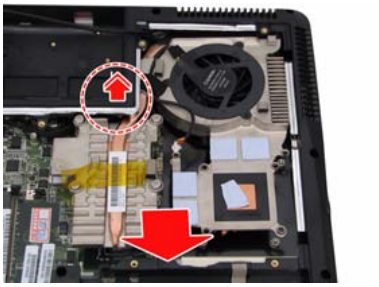
16. Unscrew the four spring screws and remove the two screws fastening the thermal module.
17. Remove one screw from inside the battery compartment.
18. Lift the lower case and take out the thermal module from the main unit.





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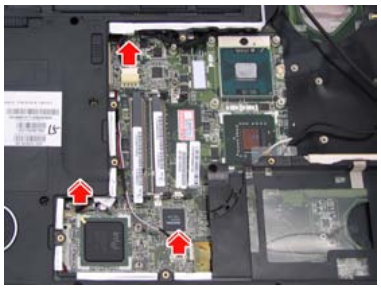
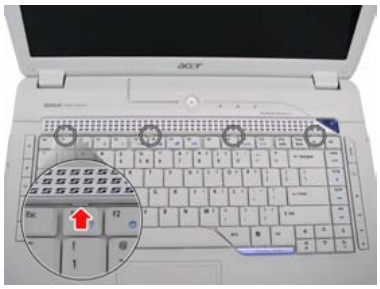
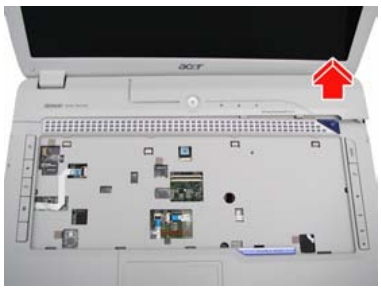
Removing the Keyboard and LCD Module

1. Disconnect the speaker, DC-In, and system fan cables.
2. Turn the notebook over and gently pry up the keyboard as shown.
3. Lift the keyboard up and towards you.

4. Disconnect the keyboard cable from the main board and remove the keyboard from the main unit.
5. Disconnect the media button, Bluetooth and Wireless cables.

6. Turn the notebook over again and remove the fourteen screws securing the lower case assembly to the upper case assembly.
7. Remove the power board cover as shown.
8. Disconnect the LCD module and microphone cables.



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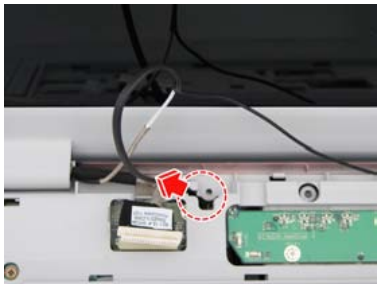
9. Pull out the wireless LAN antennas from the cable holders as shown.
10. Remove the four screws securing the hinges.
11. Detach the LCD module from the main unit.



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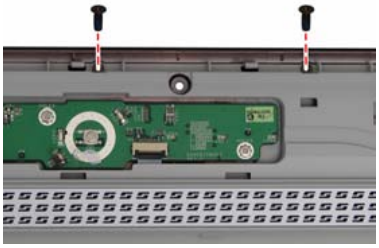
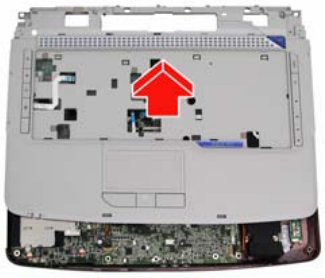
Disassembling the Main Unit

Separate the Main Unit Into the Upper and the Lower Case Assembly

1. Remove the two screws fastening the upper case assembly to the lower case assembly.
2. Carefully detach the upper case assembly from the lower case assembly.

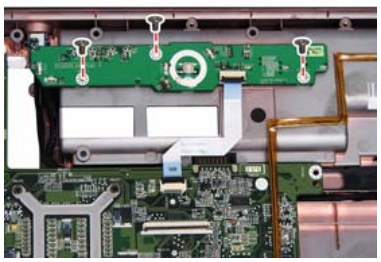


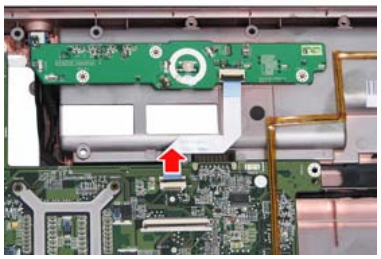


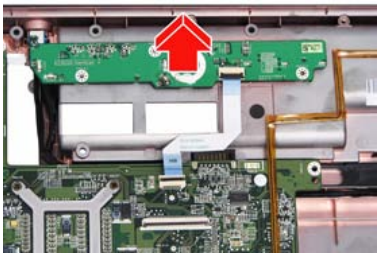
Disassembling the Lower Case Assembly

Removing the Power Board

3. Remove the three screws fastening the power board.
4. Disconnect the power board cable as shown.
5. Remove the power board.
6. Disconnect the cable from the power board.







Removing the Bluetooth Module

7. Disconnect the bluetooth cable from the main board.
8. Remove the two screws fastening the bluetooth module.
9. Remove the bluetooth module and disconnect the cable from the module.

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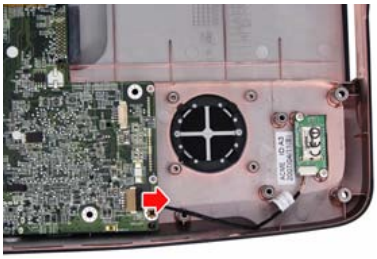
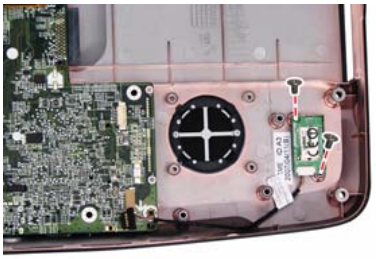
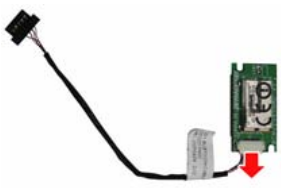
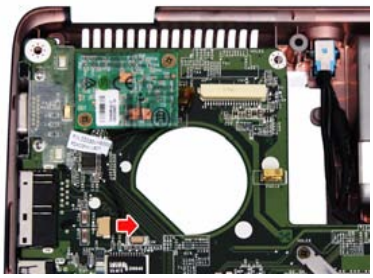
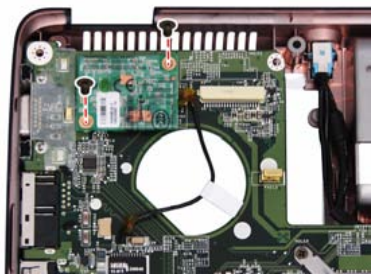




Removing the Subwoofer

10. Disconnect the subwoofer cable from the main board.
11. Remove the four screws fastening the subwoofer.
12. Remove the subwoofer.

Removing the MDC Card Module

13. Disconnect the MDC card cable from the main board.
14. Remove the two screws fastening the MDC card module.
15. Remove the MDC card module.

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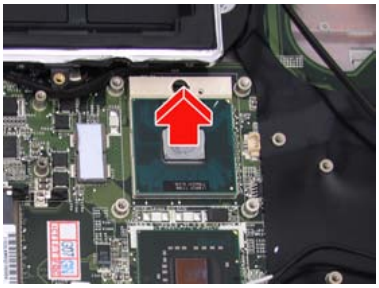
Removing the USB Board

16. Remove the screw fastening the USB board.
17. Lift the USB board and disconnect the USB board cable.
18. Remove the USB board.

Removing the CPU

19. Use a flat screwdriver to release the CPU lock (Turn counter clockwise).
20. Remove the CPU from the CPU socket carefully.



Removing the Main Board

21. Remove the MIC cable and the screw fastening the main board to the lower case.
22. Remove the main board.

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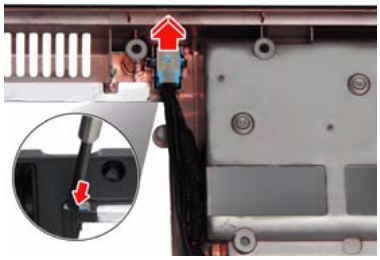
Removing the DC Cable and Jack

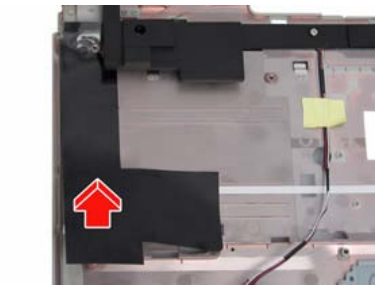
23. Turn over the lower case and use a flat screwdriver to gently push the DC jack upwards.
24. Turn the lower case over again and remove the DC cable and jack.

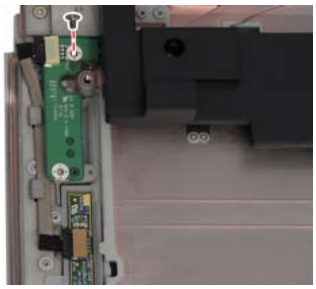


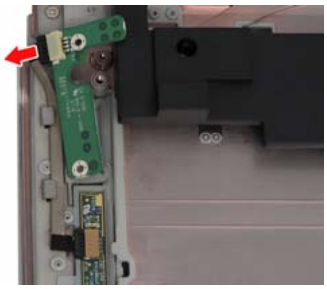
Disassembling the Upper Case Assembly

Removing the Email Board

25. Remove the protective mylar sheet covering the email board.
26. Disconnect the email board cable and remove the screw fastening the email board.
27. Remove the email board.

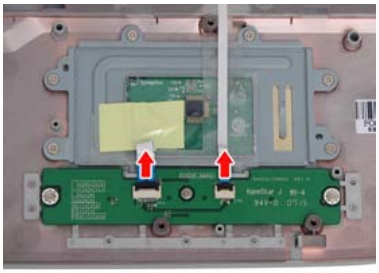


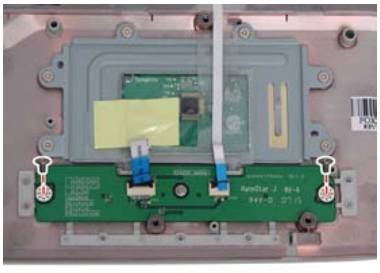




Removing the Touchpad Board

28. Disconnect the touchpad cables.
29. Remove the two screws fastening the touchpad board.
30. Remove the touchpad board.





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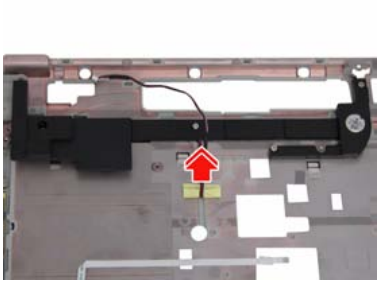
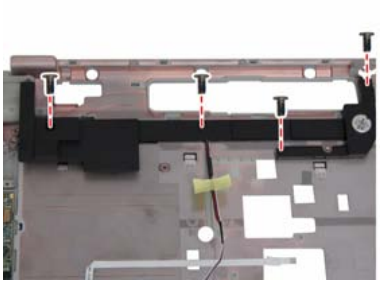
Removing the Launch Key Board

31. Remove the four screws fastening the launch key board.
32. Disconnect the launch key board cable as shown.
33. Remove the launch key board and disconnect the cable.

Removing the Speaker

34. Remove the speaker cable from the upper case.
35. Remove the four screws fastening the speaker.
36. Remove the speaker.

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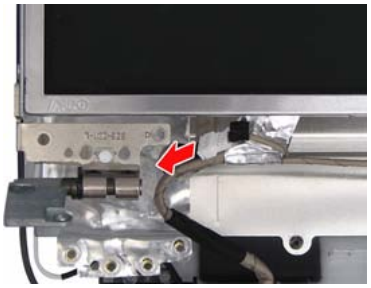
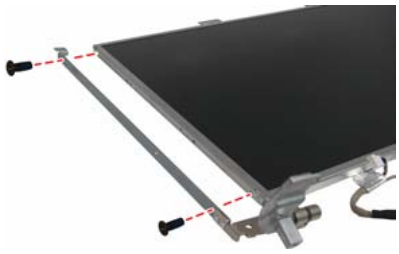
Disassembling the LCD Module

1. Remove the six screw rubbers as shown.
2. Then remove the six screws fastening the LCD bezel.
3. Detach the LCD bezel from the LCD module carefully.

4. Remove the six screws holding the LCD.
5. Detach the two inverter cable connectors from the inverter board.
6. Disconnect the CCD cable connector from the CCD board.



7. Take out the LCD from the LCD panel.
8. Remove the two screws fastening the left LCD bracket and detach it.



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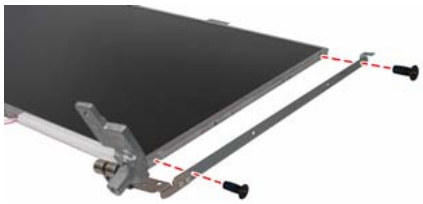
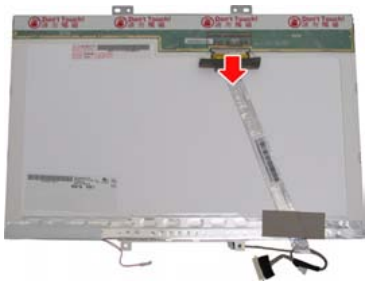
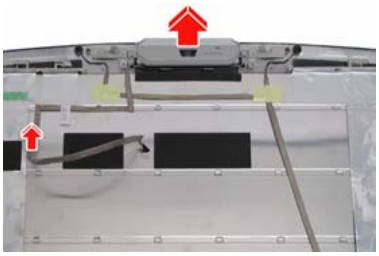
9. Remove the two screws fastening the right LCD bracket and detach it.
10. Disconnect the LCD cable from the LCD.
11. Detach the CMOS cable from the LCD cover and remove the CMOS module.

Disassembling the External Modules

Disassembling the HDD Module

1. Remove the four screws holding the HDD (hard disk drive) case; two on each side.
2. Carefully take out the hard disk drive from the HDD case.

Disassembling the ODD Module

1. Remove the two screws holding the optical bracket.
2. Then remove the optical bracket from the optical disk drive.

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Troubleshooting

Use the following procedure as a guide for computer problems.

NOTE: The diagnostic tests are intended to test only Acer products. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

Symptoms (Verified)	Go To
Power failure (The power indicator does not go on or stay on).	“Power System Check” on page 69
POST does not complete. No beep or error codes are indicated.	“Power-On Self-Test (POST) Error Message” on page 72 “Undetermined Problems” on page 84
POST detects an error and displayed messages on screen.	“Error Message List” on page 73
Other symptoms (i.e. LCD display problems or others).	“Power-On Self-Test (POST) Error Message” on page 72
Symptoms cannot be re-created (intermittent problems).	Use the customer-reported symptoms and go to “Power-On Self-Test (POST) Error Message” on page 72 “Intermittent Problems” on page 83 “Undetermined Problems” on page 84

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System Check Procedures

External Diskette Drive Check

Do the following to isolate the problem to a controller, driver, or diskette. A write-enabled, diagnostic diskette is required.

NOTE: Make sure that the diskette does not have more than one label attached to it. Multiple labels can cause damage to the drive or cause the drive to fail.

Do the following to select the test device:

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if FDD Test is passed as the program runs to FDD Test.
3. Follow the instructions in the message window.

If an error occurs with the internal diskette drive, reconnect the diskette connector on the system board.

If the error still remains:

1. Reconnect the external diskette drive/DVD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

External CD-ROM Drive Check

Do the following to isolate the problem to a controller, drive, or CD-ROM. Make sure that the CD-ROM does not have any label attached to it. The label can cause damage to the drive or can cause the drive to fail.

Do the following to select the test device:

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if CD-ROM Test is passed when the program runs to CD-ROM Test.
3. Follow the instructions in the message window.

If an error occurs, reconnect the connector on the System board. If the error still remains:

1. Reconnect the external diskette drive/CD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

Keyboard or Auxiliary Input Device Check

Remove the external keyboard if the internal keyboard is to be tested.

If the internal keyboard does not work or an unexpected character appears, make sure that the flexible cable extending from the keyboard is correctly seated in the connector on the system board.

If the keyboard cable connection is correct, run the Keyboard Test.

If the tests detect a keyboard problem, do the following one at a time to correct the problem. Do not replace a non-defective FRU:

1. Reconnect the keyboard cables.
2. Replace the keyboard.
3. Replace the main board.

The following auxiliary input devices are supported by this computer:

- ❑ Numeric keypad
- ❑ External keyboard

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If any of these devices do not work, reconnect the cable connector and repeat the failing operation.

Memory check

Memory errors might stop system operations, show error messages on the screen, or hang the system.

1. Boot from the diagnostics diskette and start the doagmpstotics program (please refer to main board).
2. Go to the diagnostic memory in the test items.
3. Press F2 in the test items.
4. Follow the instructions in the message window.

NOTE: Make sure that the DIMM is fully installed into the connector. A loose connection can cause an error.

Power System Check

To verify the symptom of the problem, power on the computer using each of the following power sources:

1. Remove the battery pack.
2. Connect the power adapter and check that power is supplied.
3. Disconnect the power adapter and install the charged battery pack; then check that power is supplied by the battery pack.

If you suspect a power problem, see the appropriate power supply check in the following list:

- ❑ “Check the Power Adapter” on page 70
- ❑ “Check the Battery Pack” on page 71

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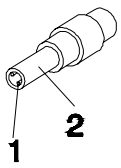
Check the Power Adapter

Unplug the power adapter cable from the computer and measure the output voltage at the plug of the power adapter cable. See the following figure:



Pin 1: +19 to +20.5V
Pin 2: 0V, Ground

1. If the voltage is not correct, replace the power adapter.
2. If the voltage is within the range, do the following:
   - ❑ Replace the System board.
   - ❑ If the problem is not corrected, see “Undetermined Problems” on page 84.
   - ❑ If the voltage is not correct, go to the next step.

NOTE: An audible noise from the power adapter does not always indicate a defect.

3. If the power-on indicator does not light up, check the power cord of the power adapter for correct continuity and installation.
4. If the operational charge does not work, see “Check the Battery Pack” on page 71.

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Check the Battery Pack

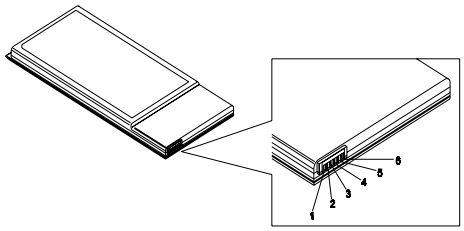
To check the battery pack, do the following:

From Software:

1. Check out the Power Management in Control Panel
2. In Power Meter, confirm that if the parameters shown in the screen for Current Power Source and Total Battery Power Remaining are correct.
3. Repeat the steps 1 and 2, for both battery and adapter.
4. This helps you identify first the problem is on recharging or discharging.

From Hardware:

1. Power off the computer.
2. Remove the battery pack and measure the voltage between battery terminals 1(+) and 6(ground). See the following figure



3. If the voltage is still less than 7.5 Vdc after recharging, replace the battery.

To check the battery charge operation, use a discharged battery pack or a battery pack that has less than 50% of the total power remaining when installed in the computer.

If the battery status indicator does not light up, remove the battery pack and let it return to room temperature. Re-install the battery pack.

If the charge indicator still does not light up, replace the battery pack. If the charge indicator still does not light up, replace the DC/DC charger board.

Touchpad Check

If the touchpad doesn’t work, do the following actions one at a time to correct the problem. Do not replace a non-defective FRU:

1. Reconnect the touchpad cables.
2. Replace the touchpad.
3. Replace the system board.

After you use the touchpad, the pointer drifts on the screen for a short time. This self-acting pointer movement can occur when a slight, steady pressure is applied to the touchpad pointer. This symptom is not a hardware problem. No service actions are necessary if the pointer movement stops in a short period of time.

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Power-On Self-Test (POST) Error Message

The POST error message index lists the error message and their possible causes. The most likely cause is listed first.

NOTE: Perform the FRU replacement or actions in the sequence shown in FRU/Action column, if the FRU replacement does not solve the problem, put the original part back in the computer. Do not replace a non-defective FRU.

This index can also help you determine the next possible FRU to be replaced when servicing a computer.

If the symptom is not listed, see “Undetermined Problems” on page 84.

The following lists the error messages that the BIOS displays on the screen and the error symptoms classified by function.

NOTE: Most of the error messages occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured.

NOTE: If the system fails after you make changes in the BIOS Setup Utility menus, reset the computer, enter Setup and install Setup defaults or correct the error.

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Index of Error Messages

Error Code List

Error Codes	Error Messages
006	Equipment Configuration Error Causes: 1. CPU BIOS Update Code Mismatch 2. IDE Primary Channel Master Drive Error (THe causes will be shown before “Equipment Configuration Error”)
010	Memory Error at xxxx:xxxx:xxxxh (R:xxxxh, W:xxxxh)
070	Real Time Clock Error
071	CMOS Battery Bad
072	CMOS Checksum Error
110	System disabled. Incorrect password is specified.
<No error code>	Battery critical LOW In this situation BIOS will issue 4 short beeps then shut down system, no message will show.
<No error code>	Thermal critical High In this situation BIOS will shut down system, not show message.

Error Message List

Error Messages	FRU/Action in Sequence
Failure Fixed Disk	Reconnect hard disk drive connector. “Load Default Settings” in BIOS Setup Utility. Hard disk drive System board
Stuck Key	see “Keyboard or Auxiliary Input Device Check” on page 68.
Keyboard error	see “Keyboard or Auxiliary Input Device Check” on page 68.
Keyboard Controller Failed	see “Keyboard or Auxiliary Input Device Check” on page 68.
Keyboard locked - Unlock key switch	Unlock external keyboard
Monitor type does not match CMOS - Run Setup	Run “Load Default Settings” in BIOS Setup Utility.
Shadow RAM Failed at offset: nnnn	BIOS ROM System board
System RAM Failed at offset: nnnn	DIMM System board
Extended RAM Failed at offset: nnnn	DIMM System board
System battery is dead - Replace and run Setup	Replace RTC battery and Run BIOS Setup Utility to reconfigure system time, then reboot system.
System CMOS checksum bad - Default configuration used	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system.
System timer error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board

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Error Message List

Error Messages	FRU/Action in Sequence
Real time clock error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board
Previous boot incomplete - Default configuration used	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Memory size found by POST differed from CMOS	Run “Load Default Settings” in BIOS Setup Utility. DIMM System board
Diskette drive A error	Check the drive is defined with the proper diskette type in BIOS Setup Utility See “External Diskette Drive Check” on page 68.
Incorrect Drive A type - run SETUP	Check the drive is defined with the proper diskette type in BIOS Setup Utility
System cache error - Cache disabled	System board
CPU ID:	System board
DMA Test Failed	DIMM System board
Software NMI Failed	DIMM System board
Fail-Safe Timer NMI Failed	DIMM System board
Device Address Conflict	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Allocation Error for device	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Failing Bits: nnnn	DIMM BIOS ROM System board
Fixed Disk n	None
Invalid System Configuration Data	BIOS ROM System board
I/O device IRQ conflict	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Operating system not found	Enter Setup and see if fixed disk and drive A: are properly identified. Diskette drive Hard disk drive System board

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Error Message List

No beep Error Messages	FRU/Action in Sequence
No beep, power-on indicator turns off and LCD is blank.	Power source (battery pack and power adapter). See “Power System Check” on page 69.. Ensure every connector is connected tightly and correctly. Reconnect the DIMM. LED board. System board.
No beep, power-on indicator turns on and LCD is blank.	Power source (battery pack and power adapter). See “Power System Check” on page 69.. Reconnect the LCD connector Hard disk drive LCD inverter ID LCD cable LCD Inverter LCD System board
No beep, power-on indicator turns on and LCD is blank. But you can see POST on an external CRT.	Reconnect the LCD connectors. LCD inverter ID LCD cable LCD inverter LCD System board
No beep, power-on indicator turns on and a blinking cursor shown on LCD during POST.	Ensure every connector is connected tightly and correctly. System board
No beep during POST but system runs correctly.	Speaker System board

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Phoenix BIOS Beep Codes

Code	Beeps	POST Routine Description
02h		Verify Real Mode
03h		Disable Non-Maskable Interrupt (NMI)
04h		Get CPU type
06h		Initialize system hardware
08h		Initialize chipset with initial POST values
09h		Set IN POST flag
0Ah		Initialize CPU registers
0Bh		Enable CPU cache
0Ch		Initialize caches to initial POST values
0Eh		Initialize I/O component
0Fh		Initialize the local bus IDE
10h		Initialize Power Management
11h		Load alternate registers with initial POST values
12h		Restore CPU control word during warm boot
13h		Initialize PCI Bus Mastering devices
14h		Initialize keyboard controller
16h	1-2-2-3	BIOS ROM checksum
17h		Initialize cache before memory autosize
18h		8254 timer initialization
1Ah		8237 DMA controller initialization
1Ch		Reset Programmable Interrupt Controller
20h	1-3-1-1	Test DRAM refresh
22h	1-3-1-3	Test 8742 Keyboard Controller
24h		Set ES segment register to 4 GB
26h		Enable A20 line
28h		Autosize DRAM
29h		Initialize POST Memory Manager
2Ah		Clear 215 KB base RAM
2Ch	1-3-4-1	RAM failure on address line xxxx
2Eh	1-3-4-3	RAM failure on data bits xxxx of low byte of memory bus
2Fh		Enable cache before system BIOS shadow
30h	1-4-1-1	RAM failure on data bits xxxx of high byte of memory bus
32h		Test CPU bus-clock frequency
33h		Initialize Phoenix Dispatch Manager
36h		Warm start shut down
38h		Shadow system BIOS ROM
3Ah		Autosize cache
3Ch		Advanced configuration of chipset registers
3Dh		Load alternate registers with CMOS values
42h		Initialize interrupt vectors
45h		POST device initialization

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Code	Beeps	POST Routine Description
46h	2-1-2-3	Check ROM copyright notice
48h		Check video configuration against CMOS
49h		Initialize PCI bus and devices
4Ah		Initialize all video adapters in system
4Bh		QuietBoot start (optional)
4Ch		Shadow video BIOS ROM
4Eh		Display BIOS copyright notice
50h		Display CPU type and speed
51h		Initialize EISA board
52h		Test keyboard
54h		Set key click if enabled
58h	2-2-3-1	Test for unexpected interrupts
59h		Initialize POST display service
5Ah		Display prompt “Press F2 to enter SETUP”
5Bh		Disable CPU cache
5Ch		Test RAM between 512 and 640 KB
60h		Test extended memory
62h		Test extended memory address lines
64h		Jump to User Patch1
66h		Configure advanced cache registers
67h		Initialize Multi Processor APIC
68h		Enable external and CPU caches
69h		Setup System Management Mode (SMM) area
6Ah		Display external L2 cache size
6Bh		Load custom defaults (optional)
6Ch		Display shadow-area message
6Eh		Display possible high address for UMB recovery
70h		Display error messages
72h		Check for configuration errors
76h		Check for keyboard errors
7Ch		Set up hardware interrupt vectors
7Eh		Initialize coprocessor if present
80h		Disable onboard Super I/O ports and IRQs
81h		Late POST device initialization
82h		Detect and install external RS232 ports
83h		Configure non-MCD IDE controllers
84h		Detect and install external parallel ports
85h		Initialize PC-compatible PnP ISA devices
86h		Re-initialize onboard I/O ports
87h		Configure Motherboard Configurable Devices (optional)
88h		Initialize BIOS Area
89h		Enable Non-Maskable Interrupts (NMIs)
8Ah		Initialize Extended BIOS Data Area
8Bh		Test and initialize PS/2 mouse

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Code	Beeps	POST Routine Description
8Ch		Initialize floppy controller
8Fh		Determine number of ATA drives (optional)
90h		Initialize hard-disk controllers
91h		Initialize local-bus hard-disk controllers
92h		Jump to UserPatch2
93h		Build MPTABLE for multi-processor boards
95h		Install CD ROM for boot
96h		Clear huge ES segment register
97h		Fixup Multi Processor table
98h	1-2	Search for option ROMs. One long, two short beeps on checksum failure.
99h		Check for SMART drive (optional)
9Ah		Shadow option ROMs
9Ch		Set up Power Management
9Dh		Initialize security engine (optional)
9Eh		Enable hardware interrupts
9Fh		Determine number of ATA and SCSI drives
A0h		Set time of day
A2h		Check key lock
A4h		Initialize Typematic rate
A8h		Erase F2 prompt
AAh		Scan for F2 key stroke
ACh		Enter SETUP
AEh		Clear Boot flag
B0h		Check for errors
B2h		POST done- prepare to boot operating system
B4h	1	One short beep before boot
B5h		Terminate QuietBoot (optional)
B6h		Check password (optional)
B9h		Prepare Boot
BAh		Initialize DMI parameters
BBh		Initialize PnP Option ROMs
BCh		Clear parity checkers
BDh		Display MultiBoot menu
BEh		Clear screen (optional)
BFh		Check virus and backup reminders
C0h		Try to boot with INT 19
C1h		Initialize POST Error Manager (PEM)
C2h		Initialize error logging
C3h		Initialize error display function
C4h		Initialize system error handler
C5h		PnPnd dual CMOS (optional)
C6h		Initialize notebook docking (optional)
C7h		Initialize notebook docking late
C8h		Force check (optional)
C9h		Extended checksum (optional)

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Code	Beeps	POST Routine Description
D2h		Unknown interrupt

Code	Beeps	
E0h		Initialize the chipset
E1h		Initialize the bridge
E2h		Initialize the CPU
E3h		Initialize the system timer
E4h		Initialize system I/O
E5h		Check force recovery boot
E6h		Checksum BIOS ROM
E7h		Go to BIOS
E8h		Set Huge Segment
E9h		Initialize Multi Processor
EAh		Initialize OEM special code
EBh		Initialize PIC and DMA
ECh		Initialize Memory type
EDh		Initialize Memory size
EEh		Shadow Boot Block
EFh		System memory test
F0h		Initialize interrupt vectors
F1h		Initialize Run Time Clock
F2h		Initialize video
F3h		Initialize System Management Mode
F4h	1	Output one beep before boot
F5h		Boot to Mini DOS
F6h		Clear Huge Segment
F7h		Boot to Full DOS

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Index of Symptom-to-FRU Error Message

LCD-Related Symptoms

Symptom / Error	Action in Sequence
LCD backlight doesn't work LCD is too dark LCD brightness cannot be adjusted LCD contrast cannot be adjusted	Enter BIOS Utility to execute “Load Setup Default Settings”, then reboot system. Reconnect the LCD connectors. Keyboard (if contrast and brightness function key doesn't work). LCD inverter ID LCD cable LCD inverter LCD System board
Unreadable LCD screen Missing pels in characters Abnormal screen Wrong color displayed	Reconnect the LCD connector LCD inverter ID LCD cable LCD inverter LCD System board
LCD has extra horizontal or vertical lines displayed.	LCD inverter ID LCD inverter LCD cable LCD System board

Indicator-Related Symptoms

Symptom / Error	Action in Sequence
Indicator incorrectly remains off or on, but system runs correctly	Reconnect the inverter board Inverter board System board

Power-Related Symptoms

Symptom / Error	Action in Sequence
Power shuts down during operation	Power source (battery pack and power adapter). See “Power System Check” on page 69. Battery pack Power adapter Hard drive & battery connection board System board
The system doesn’t power-on.	Power source (battery pack and power adapter). See “Power System Check” on page 69. Battery pack Power adapter Hard drive & battery connection board System board
The system doesn’t power-off.	Power source (battery pack and power adapter). See “Power System Check” on page 69. Hold and press the power switch for more than 4 seconds. System board

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Power-Related Symptoms

Symptom / Error	Action in Sequence
Battery can't be charged	See "Check the Battery Pack" on page 71. Battery pack System board

PCMCIA-Related Symptoms

Symptom / Error	Action in Sequence
System cannot detect the PC Card (PCMCIA)	PCMCIA slot assembly System board
PCMCIA slot pin is damaged.	PCMCIA slot assembly

Memory-Related Symptoms

Symptom / Error	Action in Sequence
Memory count (size) appears different from actual size.	Enter BIOS Setup Utility to execute "Load Default Settings, then reboot system. DIMM System board

Speaker-Related Symptoms

Symptom / Error	Action in Sequence
In Windows, multimedia programs, no sound comes from the computer.	Audio driver Speaker System board
Internal speakers make noise or emit no sound.	Speaker System board

Power Management-Related Symptoms

Symptom / Error	Action in Sequence
The system will not enter hibernation	See "Save to Disk (S4)" on page 45. Keyboard (if control is from the keyboard) Hard disk drive System board
The system doesn't enter hibernation mode and four short beeps every minute.	Press Fn+F4 and see if the computer enters hibernation mode. Touchpad Keyboard Hard disk connection board Hard disk drive System board
The system doesn't enter standby mode after closing the LCD	See "Save to Disk (S4)" on page 45. LCD cover switch System board
The system doesn't resume from hibernation mode.	See "Save to Disk (S4)" on page 45. Hard disk connection board Hard disk drive System board
The system doesn't resume from standby mode after opening the LCD.	See "Save to Disk (S4)" on page 45. LCD cover switch System board

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Power Management-Related Symptoms

Symptom / Error	Action in Sequence
Battery fuel gauge in Windows doesn't go higher than 90%.	Remove battery pack and let it cool for 2 hours. Refresh battery (continue use battery until power off, then charge battery). Battery pack System board
System hangs intermittently.	Reconnect hard disk/CD-ROM drives. Hard disk connection board System board

Peripheral-Related Symptoms

Symptom / Error	Action in Sequence
System configuration does not match the installed devices.	Enter BIOS Setup Utility to execute "Load Default Settings", then reboot system. Reconnect hard disk/CD-ROM/diskette drives.
External display does not work correctly.	Press Fn+F5, LCD/CRT/Both display switching System board
USB does not work correctly	System board
Print problems.	Ensure the "Parallel Port" in the "Onboard Devices Configuration" of BIOS Setup Utility is set to Enabled. Onboard Devices Configuration Run printer self-test. Printer driver Printer cable Printer System Board
Serial or parallel port device problems.	Ensure the "Serial Port" in the Devices Configuration" of BIOS Setup Utility is set to Enabled. Device driver Device cable Device System board

Keyboard/Touchpad-Related Symptoms

Symptom / Error	Action in Sequence
Keyboard (one or more keys) does not work.	Reconnect the keyboard cable. Keyboard System board
Touchpad does not work.	Reconnect touchpad cable. Touchpad board System board

Modem-Related Symptoms

Symptom / Error	Action in Sequence
Internal modem does not work correctly.	Modem phone port modem combo board System board

NOTE: If you cannot find a symptom or an error in this list and the problem remains, see "Undetermined Problems" on page 84.

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Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

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Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Follow these procedures to isolate the failing FRU (do not isolate non-defective FRU).

NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See “Power System Check” on page 69.):

1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
    - ❑ Non-Acer devices
    - ❑ Printer, mouse, and other external devices
    - ❑ Battery pack
    - ❑ Hard disk drive
    - ❑ DIMM
    - ❑ CD-ROM/Diskette drive Module
    - ❑ PC Cards
4. Power-on the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failing FRU.
7. If the problem remains, replace the following FRU one at a time. Do not replace a non-defective FRU:
    - ❑ System board
    - ❑ LCD assembly

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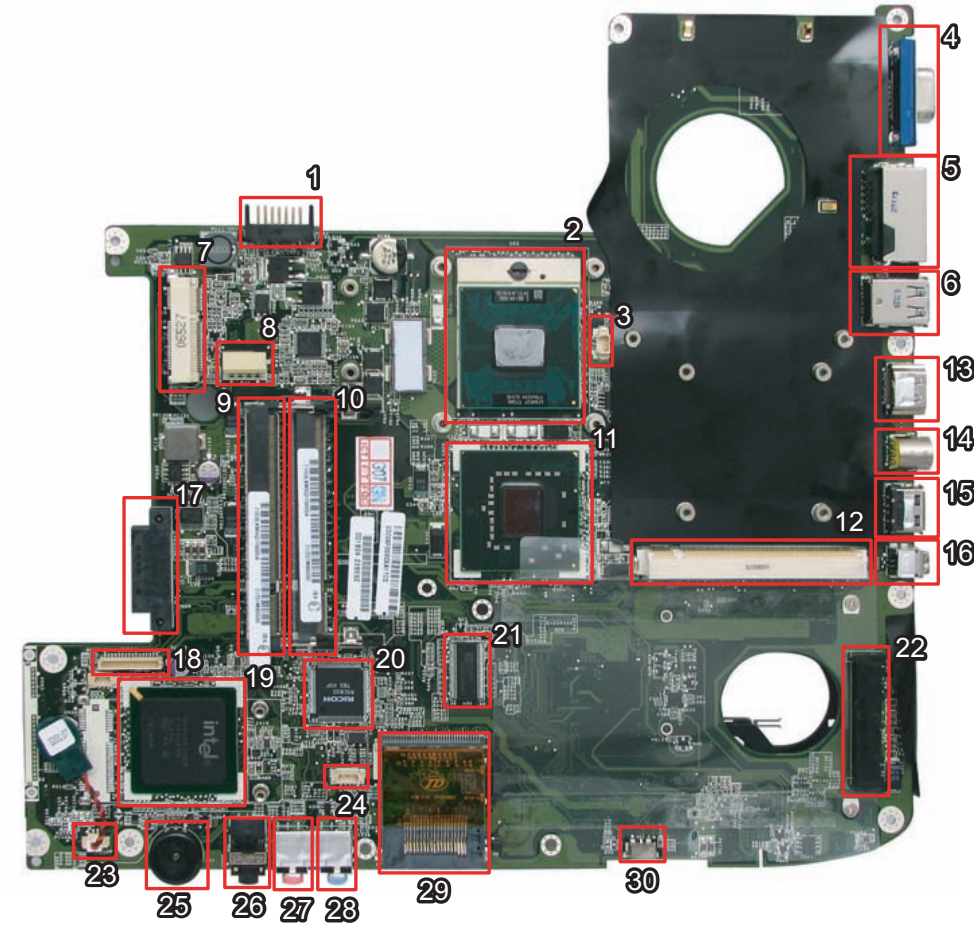
Jumper and Connector Locations

Top View



1	CN15	Battery Connector	16	CN26	IEEE 1394 Connector
2	U22	CPU Socket	17	CN28	Optical Disk Drive Connector
3	CN20	Fan Connector	18	CN30	
4	CN13	VGA Jack	19	U34	South Bridge
5	CN14	Ethernet Controller	20	U32	Audio Codec
6	CN18	USB Connector	21	U31	
7	CN19	Wireless LAN Card Connector	22	CN32	SATA HDD Connector
8	PJ1	DC-IN Connector	23	CN39	
9	CN25	DIMM Socket	24	CN35	Speaker Connector
10	CN23	DIMM Socket	25	VR1	Volume Dial
11	U29	North Bridge	26	CN30	Headphones/Speaker/Line-out Jack
12	U30		27	CN37	Microphone-in Jack
13	CN21	HDMI Connector	28	CN36	Line-in Jack
14	CN22	S-Video Connector	29	CN38	5-in-1 Card Reader
15	CN23	USB Connector	30	U37	Infrared Sensor

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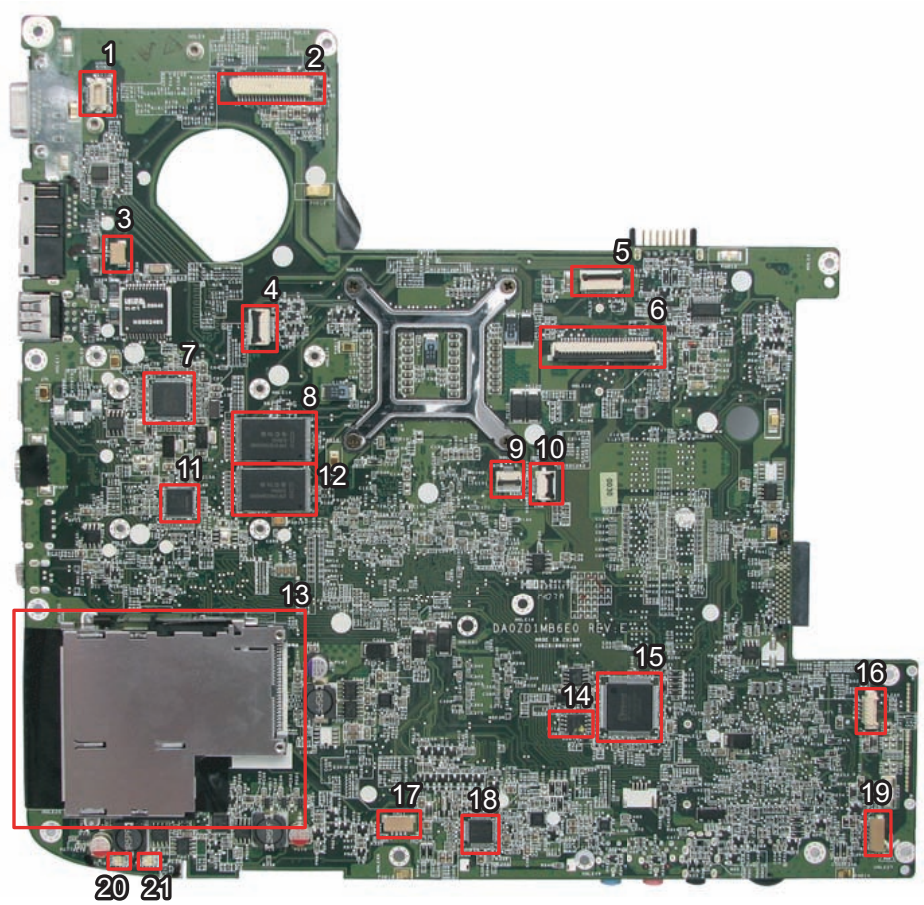
Bottom View



1	CN2		12	U7	DDR2 SDRAM IC
2	CN1	LCD Connector	13	CN9	Card Bus Socket
3	CN3	MDC Connector	14	U11	
4	CN5	Email Board Connector	15	U10 Winbond	Touchpad Connector
5	CN4	Power Board Connector	16	CN16	Subwoofer Connector
6	CN6	Keyboard Connector	17	CN11	MSC Connector
7	U4	Audio Codec	18	U19	
8	U6	DDR2 SDRAM IC	19	CN12	
9	CN7	Bluetooth Connector	20	LED2	HDD LED
10	CN8	Wireless Connector	21	LED3	Battery LED
11	U8				

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FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Aspire Chapla. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

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Aspire Chapla Exploded Diagram

Category	No.	Part Name and Description	Acer Part No.
ADAPTER			
		ADAPTER 65W 3 PIN Delta SADP-65KB DBRF LF	AP.06501.010
		ADAPTER LSE - 65W, SLS0335A1957 LF YELLOW LF	AP.06506.004
		ADAPTER 65W 3 PIN LITE-ON PA1650-02 QY LF	AP.06503.013
BATTERY			
		Battery SANYO TM-2007A Li-Ion 3S2P 6 cell 4000mAh Main COMMON Y Cell, IC8030	BT.00603.039
		Battery SONY TM-2007A Li-Ion 3S2P6 cell 4000mAh Main COMMON G4E (LIP6233ACPC SY6)	BT.00604.017
		Battery SANYO TM-2007A Li-Ion 3S2P 6 cell 4800mAh Main COMMON IC8030	BT.00603.040
		Battery LI-ION MYNA 2 6CELL2.4 (SONYPACK 4,800MAH)	BT.00604.005
		Battery SONY TM-2007A Li-Ion 3S3P SONY 9 cell 7200mAh Main COMMON	BT.00904.003
BOARD			
		MODEM BOARD FOXCONN T60M951.00	54.TG607.001
		BLUETOOTH MODULE (T60H928.01)	54.TAXV7.001
		MINI PCI WIRELESS BOARD 802.11 A/B/G MOW1 INTEL MM872612	KI.GLN01.001
		MINI PCI WIRELESS BOARD 802.11 A/B/G MOW2 INTEL MM872659	KI.GLN01.002
		MINI PCI WIRELESS BOARD 802.11 A/B/G ROW INTEL MM874511	KI.GLN01.003
		MINI PCI WIRELESS BOARD 802.11 A/B/G JPN	KI.GLN01.004
		WIRELESS LAN BOARD 802.11BG INTEL 3945BG	KI.GLN01.005
		INTEL WIRELESS WIFI LINK 4965ANG MOW1 (MM#886224)	KI.KDN01.001
		INTEL WIRELESS WIFI LINK 4965ANG MOW2 (MM#886220)	KI.KDN01.002
		INTEL WIRELESS WIFI LINK 4965ANG ROW (MM#886434)	KI.KDN01.003
		INTEL WIRELESS WIFI LINK 4965ANG JP (MM#886437)	KI.KDN01.004
		WIRELESS LAN CARD FOXCONN T60h976.00 MINI	54.AZL07.001

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Category	No.	Part Name and Description	Acer Part No.
		FUNCTION BOARD	55.TG607.001
		TOUCHPAD BOARD W/FINGER PRINT	55.TG607.002
		USB BOARD	55.TG607.003
		LED BOARD	55.TG607.004
CABLE			
		PWR CORD V943B30001218008 DANISH 3P	27.A03V7.006
		PWR CORD(ISR)1.8M 3PBLK FZ0I0008-038	27.A50V7.002
		PWR CORD V50CB3T3012180QD TW-110V,3P	27.A99V7.002
		POWER CORD(SWI)1.8M 3PBLACK FZ010008-011	27.A99V7.004
		POWER CORD(IT) 1.8M 3PBLACK FZ010008-008	27.A99V7.005
		POWER CORD(S.A) 1.8M 3BLACK FZ010008-006	27.T48V7.001
		POWER CORD US 3PIN ROHS	27.TAXV7.001
		POWER CORD(EU) 1.8M 3PBLACK FM010008-010	27.TATV7.001
		POWER CORD(UK) 1.8M 3PBLACK FP010008-013	27.TATV7.003
		BLUETOOTH CABLE	50.TG607.001
		FFC CABLE - FUNCTION/B TO MB	50.TG607.002
		FFC CABLE - LED/B TO MB	50.TG607.003
		FINGER PRINT/TP BOARD CABLE	50.TG607.004

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Category	No.	Part Name and Description	Acer Part No.
CASE/COVER/BRACKET ASSEMBLY			
		MIDDLE COVER	42.TG607.001
		UPPER CASE FOR FP W/TP, TP CABLE	60.TG607.001
		LOWER CASE W/ SPEAKER, MODEM CABLE	60.TG607.002
		BASE ODD CAP	42.TG607.002
		BASE DUCK RUBBER	42.TG607.003
		RAM DOOR	42.TG607.004
		TP BRACKET	33.TG607.003
		DUMMY PCMCIA CARD	42.TDY07.003
		DUMMY 4 IN 1 CARD	42.TG607.005
CPU/PROCESSOR			
		CPU Intel Core2Dual T7100 PGA 1.8G 2M 800 SLA4A	KC.71001.DTP
		CPU Intel Core2Dual T7300 PGA 2.0G 4M 800 SLA45	KC.73001.DTP
		CPU Intel Core2Dual T7500 PGA 2.2G 4M 800 SLA44	KC.75001.DTP

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Category	No.	Part Name and Description	Acer Part No.
		CPU Intel Core2Dual T77500 PGA 2.4G 4M 800 SLA44	KC.77001.DTP
COMBO MODULE			
		DVD/CDRW COMBO MODULE	6M.TG607.007
		DVD/CDRW COMBO DRIVE 24X SONY CRX880A LF W/O BEZEL	KO.0240E.005
		DVD/CDRW COMBO DRIVE 24X HLDS GCC-T10N PATA LF W/O BEZEL	KO.0240D.005
		ODD BRACKET	33.TG607.004
		DVD/CDRW COMBO BEZEL	42.TG607.006
DVD-RW DRIVE			
		DVD/RW SUPER MULTI MODULE	6M.TG607.008
		DVD SUPER MULTI TRAY IN HLDS GSA-T20N LF W/O BEZEL	KU.0080D.027
		DVD SUPER MULTI TRAY IN PANASONIC UJ-850 U LF W/O BEZEL	KU.00807.055
		DVD SUPER MULTI TRAY IN PHILIPS DS-8A1P LF W/O BEZEL	KU.0080D.027
		OPTICAL BRACKET	33.TG607.004
		DVD SUPER MULTI BEZEL	42.TG607.007
HDD/HARD DISK DRIVE			
		80GB HGST 2.5" 5400RPM SATA HTS541680J9SA00 SURUGA-B LF F/W: C70P	KH.08007.021
		80GB TOSHIBA 2.5" 5400rpm 80GB MK8037GSX Gemini BS SATA LF F/W:DL230J	KH.08004.010
		80GB WD 2.5" 5400rpm 80GB WD800BEVS-22RST0 ML80 SATA LF F/W:04.01G04	KH.08008.033

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Category	No.	Part Name and Description	Acer Part No.
		120GB HGST 2.5" 5400RPM SATA HTS541612J9SA00 SURUGA-B LF F/W: C70P	KH.12007.010
		120GB TOSHIBA 2.5" 5400rpm 120GB MK1237GSX Gemini BS SATA LF F/W:DL130J	KH.12004.006
		120GB WD 2.5" 5400rpm 120GB WD1200BEVS-22RST0 ML80 SATA LF F/W:04.01G04	KH.12008.018
		HDD SEAGATE 2.5" 5400rpm 120GB ST9120822AS(9S1133-190) Venus SATA LF F/W:3.ALD	KH.12001.031
		160GB HGST 2.5" 5400RPM SATA HTS541616J9SA00 SURUGA-B LF F/W: C70P	KH.16007.011
		160GB TOSHIBA 2.5" 5400rpm 160GB MK1637GSX Gemini BS SATA LF F/W: DL030J	KH.16004.001
		160GB WD 2.5" 5400rpm 160GB WD1600BEVS-22RST0 ML80 SATA LF F/W:04.01G04	KH.16008.019
		HDD SEAGATE 2.5" 5400rpm 160GB ST9160821AS(9S1134-190) Venus SATA LF F/W:3.ALD	KH.16001.026
		HDD TOSHIBA 2.5" 4200rpm 200GB MK2035GSS Gemini SATA LF F/W:DK022A	KH.20004.001
		HDD COVER ASSY	42.TG607.008
KEYBOARD			
		Keyboard 12KB-FV1 Chapla Internal Standard 84KS Black US International (change +-*/ location)	KB.INT00.171
		Keyboard 12KB-FV1 Chapla Internal Standard 84KS Black US International Hebrew (change +-*/ location	KB.INT00.172
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black UK (change +-*/ location)	KB.INT00.173
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Turkish (change +-*/ location)	KB.INT00.174
		Keyboard 12KB-FV1 Chapla Internal Standard 84KS Black Thailand (change +-*/ location)	KB.INT00.175
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Swiss/G (change +-*/ location)	KB.INT00.176
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Swedish (change +-*/ location)	KB.INT00.177

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Category	No.	Part Name and Description	Acer Part No.
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Spanish (change +-*/ location)	KB.INT00.178
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Slovak (change +-*/ location)	KB.INT00.180
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black SLO/CRO (change +-*/ location)	KB.INT00.181
		Keyboard 12KB-FV1 Chapla Internal Standard 84KS Black Russian (change +-*/ location)	KB.INT00.182
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Portuguese (change +-*/ location)	KB.INT00.183
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Norwegian (change +-*/ location)	KB.INT00.185
		Keyboard 12KB-FV1 Chapla Internal Standard 84KS Black Korean (change +-*/ location)	KB.INT00.187
		Keyboard 12KB-FV1 Chapla Internal Standard 88KS Black Japanese (change +-*/ location)	KB.INT00.188
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Italian (change +-*/ location)	KB.INT00.189
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Hungarian (change +-*/ location)	KB.INT00.192
		Keyboard 12KB-FV1 Chapla Internal Standard 84KS Black Greek (change +-*/ location)	KB.INT00.193
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black German (change +-*/ location)	KB.INT00.194
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black French (change +-*/ location)	KB.INT00.195
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Dutch (change +-*/ location)	KB.INT00.197
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Danish (change +-*/ location)	KB.INT00.198
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Czech (change +-*/ location)	KB.INT00.199
		Keyboard 12KB-FV1 Chapla Internal Standard 84KS Black Traditional Chinese (change +-*/ location)	KB.INT00.201
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Canadian French (change +-*/ location)	KB.INT00.202
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Brazilian Portuguese (change +-*/ location)	KB.INT00.202

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Category	No.	Part Name and Description	Acer Part No.
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Belgium (change +-*/ location)	KB.INT00.204
		Keyboard 12KB-FV1 Chapla Internal Standard 84KS Black Arabic/English (change +-*/ location)	KB.INT00.205
		Keyboard 12KB-FV1 Chapla Internal Standard 84KS Black Israel (change +-*/ location)	KB.INT00.190
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Slovenia (change +-*/ location)	KB.INT00.179
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Polish (change +-*/ location)	KB.INT00.184
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Luxembourgish (change +-*/ location)	KB.INT00.186
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Irish (change +-*/ location)	KB.INT00.191
		Keyboard 12KB-FV1 Chapla Internal Standard 85KS Black Finnish (change +-*/ location)	KB.INT00.196
LCD			
		LCD MODULE 12.1 WXGA W/ ANTENNA 3 WIRE W/0.3M CCD	6M.TG607.001
		LCD 12.1 IN. TFT WXGA NON-GLARE AU B121EW03-V5 LF 185NIT 25MS	LK.12105.009
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD COVER ASSY W/ANTENNA 3 WIRE W/0.3M CCD BISON	60.TG607.003
		LCD COVER ASSY W/ANTENNA 3 WIRE W/0.3M CCD SUYIN	60.TG607.004
		LCD BEZEL ASSY W/LOGO W/CCD	60.TG607.005

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Category	No.	Part Name and Description	Acer Part No.
		LCD BRACKET W/HINGE - L	33.TG607.001
		LCD BRACKET W/HINGE - R	33.TG607.002
		LCD MODULE 12.1 WXGA W/ ANTENNA 2 WIRE W/CCD	6M.TG607.002
		LCD 12.1 IN. TFT WXGA NON-GLARE AU B121EW03-V5 LF 185NIT 25MS	LK.12105.009
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD COVER ASSY W/ANTENNA 2 WIRE W/0.3M CCD BISON	60.TG607.006
		LCD COVER ASSY W/ANTENNA 2 WIRE W/0.3M CCD SUYIN	60.TG607.007
		LCD BEZEL ASSY W/LOGO W/CCD	60.TG607.005
		LCD BRACKET W/HINGE - L	33.TG607.001
		LCD BRACKET W/HINGE - R	33.TG607.002
		LCD MODULE 12.1 WXGA W/O ANTENNA W/0.3M CCD	6M.TG607.003
		LCD 12.1 IN. TFT WXGA NON-GLARE AU B121EW03-V5 LF 185NIT 25MS	LK.12105.009
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD COVER ASSY W/O ANTENNA W/ 0.3M CCD BISON	60.TG607.008
		LCD COVER ASSY W/O ANTENNA W/ 0.3M CCD SUYIN	60.TG607.009
		LCD BEZEL ASSY W/LOGO W/CCD	60.TG607.005
		LCD BRACKET W/HINGE - L	33.TG607.001
		LCD BRACKET W/HINGE - R	33.TG607.002
		LCD 12.1 IN. TFT WXGA NON-GLARE AU B121EW03-V5 LF 185NIT 25MS	LK.12105.009
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD BRACKET W/HINGE - L	33.TG607.001
		LCD BRACKET W/HINGE - R	33.TG607.002
		LCD 12.1 IN. TFT WXGA NON-GLARE AU B121EW03-V5 LF 185NIT 25MS	LK.12105.009
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD BRACKET W/HINGE - L	33.TG607.001

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Category	No.	Part Name and Description	Acer Part No.
		LCD BRACKET W/HINGE - R	33.TG607.002
		LCD MODULE 12.1 WXGAG W/ ANTENNA 3 WIRE W/ CCD	6M.TG607.004
		LCD 12.1 IN. TFT WXGAG GLARE AU B121EW03-V4 LF 185NIT 25MS	LK.12105.008
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD COVER ASSY W/ANTENNA 3 WIRE W/0.3M CCD BISON	60.TG607.003
		LCD COVER ASSY W/ANTENNA 3 WIRE W/0.3M CCD SUYIN	60.TG607.004
		LCD BEZEL ASSY W/LOGO W/CCD	60.TG607.005
		LCD BRACKET W/HINGE - L	33.TG607.001
		LCD BRACKET W/HINGE - R	33.TG607.002
		LCD MODULE 12.1 WXGAG W/ ANTENNA 2 WIRE W/CCD	6M.TG607.005
		LCD 12.1 IN. TFT WXGAG GLARE AU B121EW03-V4 LF 185NIT 25MS	LK.12105.008
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD COVER ASSY W/ANTENNA 2 WIRE W/0.3M CCD BISON	60.TG607.006
		LCD COVER ASSY W/ANTENNA 2 WIRE W/0.3M CCD SUYIN	60.TG607.007
		LCD BEZEL ASSY W/LOGO W/CCD	60.TG607.005
		LCD BRACKET W/HINGE - L	33.TG607.001
		LCD BRACKET W/HINGE - R	33.TG607.002
		LCD MODULE 12.1 WXGAG W/O ANTENNA W/0.3M CCD	6M.TG607.006
		LCD 12.1 IN. TFT WXGAG GLARE AU B121EW03-V4 LF 185NIT 25MS	LK.12105.008
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD COVER ASSY W/O ANTENNA W/ 0.3M CCD BISON	60.TG607.008
		LCD COVER ASSY W/O ANTENNA W/ 0.3M CCD SUYIN	60.TG607.009
		LCD BEZEL ASSY W/LOGO W/CCD	60.TG607.005
		LCD BRACKET W/HINGE - L	33.TG607.001
		LCD BRACKET W/HINGE - R	33.TG607.002
		LCD 12.1 IN. TFT WXGAG GLARE AU B121EW03-V4 LF 185NIT 25MS	LK.12105.008
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD BRACKET W/HINGE - L	33.TG607.001
		LCD BRACKET W/HINGE - R	33.TG607.002

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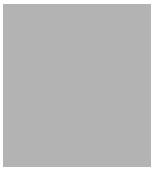
Category	No.	Part Name and Description	Acer Part No.
		LCD 12.1 IN. TFT WXGAG GLARE AU B121EW03-V4 LF 185NIT 25MS	LK.12105.008
		LCD INVERTER BOARD	19.TG607.001
		LCD CABLE	50.TG607.006
		LCD BRACKET W/HINGE - L	33.TG607.001
		LCD BRACKET W/HINGE - R	33.TG607.002
MAINBOARD			
		MAINBOARD 965GM SATA UMA W/ CARD READER W/O CPU MEMORY	MB.TG606.001
MEMORY			
		512MB HYNIX DDRII 667 512MB HYMP564S64CP6-Y5 LF	KN.5120G.019
		512MB NANYA DDRII 667 512MB NT512T64UH8B0FN-3C LF	KN.51203.032
		Memory SAMSUNG SO-DIMM DDRII 667 512MB M470T6554EZ3-CE6 LF	KN.5120B.023
		1GB HYNIX DDRII 667 1GB HYMP512S64CP8-Y5 LF	KN.1GB0G.006
		1GB NANYA DDRII 667 1GB NT1GT64U8HB0BN-3C (0.09U)	KN.1GB03.014
		1GB SAMSUNG DDRII 667 1GB M470T2953EZ3-CE6 LF	KN.1GB0B.011
HEATSINK			
		THERMAL MODULE	60.TG607.010
MISCELLANEOUS			
		NAME PLATE - TM6292	40.TG607.001
CCD			
		CCD MODULE 0.3M BISON	57.TG607.001
		CCD MODULE 0.3M SUYIN	57.TG607.002
SPEAKER			
		SPEAKER ASSY	23.TG607.001
SCERW			
		SCREW M2.0*3.0-I-NI-NYLOK	86.A08V7.005
		SCREW M3*0.5+3.5I	86.TDY07.003

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Category	No.	Part Name and Description	Acer Part No.
		SCREW M1.6*4.0-I (NI)(NYLOK)	86.FR6V7.003
		SCREW M2.0*6-I-BNI(NYLOK)	86.TG607.001
		SCREW M2.0*1.8 I (NI)(NYLOK)	86.TG607.002
		SCREW M2.0*1.5-I(NI)(ANTI-LOOSE)	86.TG607.003
		SCREW M2*5-I(BZN)(NYLOK)	86.TG607.004

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